

# Xing-Chang Wei

## List of Publications by Year in descending order

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117  
papers

1,455  
citations

516561

16  
h-index

360920

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g-index

118  
all docs

118  
docs citations

118  
times ranked

1412  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Ultrathin, Electrically Small Noise Suppression Sheet for Microwave Cavities of 3-D Integrated Circuits: Design Methodology and Realization. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1157-1168.   | 2.9 | 4         |
| 2  | A Hybrid De-Embedding Method for Low Loss and Reciprocal PCB Fixtures. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.   | 2.4 | 0         |
| 3  | Resonance Property of a Novel Vertical Substrate Integrated Waveguide. , 2022, , .  |     | 0         |
| 4  | Wideband Compartment Shielding Technique for Miniaturized Packages Based on Electrically Small Single-Negative Meta-Diaphragm. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3498-3510.                 | 2.9 | 1         |
| 5  | An Effective EMI Source Reconstruction Method Based on Phaseless Near-Field and Dynamic Differential Evolution. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 1506-1513.                                  | 1.4 | 12        |
| 6  | Regulating the Direction That Power Flows in Microwave Transmission Line Systems With Huygens Sources. IEEE Transactions on Antennas and Propagation, 2021, 69, 594-599.  | 3.1 | 2         |
| 7  | Near-Field Prediction in Complex Environment Based on Phaseless Scanned Fields and Machine Learning. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 571-579.   | 1.4 | 11        |
| 8  | A Hybrid Schatten $\langle i \rangle_p$ -Norm and $\langle i \rangle_{Lp}$ -Norm With Plane Wave Expansion Method for Near-Field Transformation. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 2074-2081. | 1.4 | 4         |
| 9  | A Deembedding Method for the S-Parameter Extraction of Surface-Mounted Devices With Asymmetric Fixtures. IEEE Microwave and Wireless Components Letters, 2021, 31, 211-214.   | 2.0 | 2         |
| 10 | Low-Profile Metasurface-Based Diaphragm for Compartment Shielding of Microwave Cavities. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2048-2059.   | 2.9 | 7         |
| 11 | Unknown Interference Source Positioning Based on Near-Field Scanning. , 2021, , .   |     | 1         |
| 12 | Design of Microstrip Line used for Probe Calibration up to 40 GHz. , 2021, , .  |     | 1         |
| 13 | Efficient coupling of evanescent waves in rectangular waveguides based on ultrathin planar capacitive metasurfaces. Science China Information Sciences, 2021, 64, 1.  | 2.7 | 2         |
| 14 | Near-Field Scanning Based Shielding Effectiveness Analysis of System in Package. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1235-1242.  | 1.4 | 9         |
| 15 | Broadband Radiation Source Reconstruction Based on Phaseless Magnetic Near-Field Scanning. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 113-117.   | 2.4 | 19        |
| 16 | Modeling of Loaded Nonuniform Grid Power Distribution Network With Arbitrary Shapes. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 90-97.  | 1.4 | 2         |
| 17 | Design of High-Frequency Differential Line for Ex Probe Calibration. , 2021, , .  |     | 0         |
| 18 | An alternating high-impedance common-mode filter for differential striplines. IET Microwaves, Antennas and Propagation, 2021, 15, 1762-1772.  | 0.7 | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | A Hybrid Boundary Scheme For Reducing Rectangular Waveguide Cutoff Frequency. , 2021, , .  |     | 0         |
| 20 | Reactive Near-Field to Far-Field Transformation based on Equivalent Dipoles. , 2021, , .   |     | 1         |
| 21 | Multi-Layered Wire Bonding Structure for Impedance Matching. , 2021, , .   |     | 1         |
| 22 | Exploring the Effectiveness of Thin Microwave Absorber Applied in Parallel-Plate Waveguide. , 2021, , .  |     | 0         |
| 23 | Ground Plane Effect on the De-embedding Accuracy for Surface Mount Devices. , 2021, , .  |     | 0         |
| 24 | Dual-Components Magnetic Probe for Electromagnetic Interference Measurement. , 2021, , .   |     | 6         |
| 25 | An <i>LC</i> Resonant Method for the Accurate Extraction of Small Parasitic Resistance. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 894-901.   | 1.4 | 5         |
| 26 | Modeling and Analyzing High-Order Modes in Periodic-Stub-Loaded Stripline for Wideband Filter Design. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 398-405.   | 1.4 | 7         |
| 27 | PCB DK and DF Extraction based on the Wheeler Incremental Inductance Method. , 2020, , .   |     | 0         |
| 28 | Equivalent Electromagnetic Hybrid Dipole Based on Cascade-Forward Neural Network to Predict Near-Field Magnitude of Complex Environmental Radiation. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 227-234. | 1.4 | 5         |
| 29 | Preliminary Study on the Near-Field Absorber. , 2020, , .  |     | 2         |
| 30 | An EM Imaging Method Based on Plane-Wave Spectrum and Transmission Line Model. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4161-4168.  | 2.9 | 8         |
| 31 | A High Frequency Probe with End Launch Structure. , 2020, , .  |     | 0         |
| 32 | Development of Artificial Neural Network for Field Prediction of Unknown EM Source. , 2020, , .  |     | 1         |
| 33 | Extraction of the Complex Permittivity of PCB. , 2020, , .   |     | 0         |
| 34 | An Enhanced One-Port Waveguide Method for Sheet Resistance Extraction. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1822-1829.  | 1.4 | 6         |
| 35 | EMI Source Reconstruction by Using Equivalent Dipoles at Different Height. , 2020, , .   |     | 1         |
| 36 | Review of Near-Field EMI Measurement. , 2020, , .  |     | 0         |

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|----|--|-----|-----------|
| 37 | Wide-Band Near-Field Prediction of Unknown EM Source Based on Artificial Neural Network. , 2020, , .   |     | 0         |
| 38 | Effect of Electric Field on the Magnetic Probe. , 2020, , .  |     | 1         |
| 39 | Influence of Solders on SiP Shielding Effectiveness. , 2020, , .   |     | 0         |
| 40 | High-frequency Equivalent Circuit Modeling for Overvoltage Detection. , 2020, , .  |     | 0         |
| 41 | Ex-Ey hybrid Probe for High Frequency Electromagnetic Interference Measurement. , 2020, , .  |     | 0         |
| 42 | Application of Artificial Neural Network for Electromagnetic Source Reconstruction. , 2019, , .  |     | 3         |
| 43 | An Efficient Probe Calibration Based Near-Field-to-Near-Field Transformation for EMI Diagnosis. IEEE Transactions on Antennas and Propagation, 2019, 67, 4141-4147.                      | 3.1 | 22        |
| 44 | An Integral Equation Hybrid Method for the Impedance Calculation of the Grid Power Distribution Network With an Arbitrary Shape. IEEE Transactions on Magnetics, 2019, 55, 1-4.          | 1.2 | 2         |
| 45 | Patch Antenna Radiation Pattern Evaluation Based on Phaseless and Single-Plane Near-Field Scanning. , 2019, , .  |     | 7         |
| 46 | A Miniature Multi-Component Probe for Near-Field Scanning. IEEE Transactions on Antennas and Propagation, 2019, 67, 6821-6828.   | 3.1 | 40        |
| 47 | Subwavelength Periodic Shielding Materials: Toward Enhanced Shielding of the Incomplete Enclosure. IEEE Microwave and Wireless Components Letters, 2019, 29, 113-115.                    | 2.0 | 13        |
| 48 | An Equivalent Dipole Model Hybrid With Artificial Neural Network for Electromagnetic Interference Prediction. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1790-1797. | 2.9 | 55        |
| 49 | A High-Frequency and High Spatial Resolution Probe Design for EMI Prediction. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3012-3019.                                 | 2.4 | 41        |
| 50 | Capacitive Diaphragm for Compartment Shielding in the Fifth-Generation Radio Frequency Systems. , 2019, , .  |     | 5         |
| 51 | Absorptive Surface Based on Graphene Composite for Advanced EMI Suppression. , 2019, , .   |     | 4         |
| 52 | Calculation of Number of Equivalent Magnetic Dipoles for the Source Reconstruction by using Artificial Neural Network. , 2019, , .   |     | 1         |
| 53 | Application of 2X Method for Components Parameters Extraction. , 2019, , .   |     | 3         |
| 54 | Impedance Calculation of Grid Power Distribution Network by using Artificial Neural Network. , 2019, , .   |     | 0         |

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|----|---|-----|-----------|
| 55 | Shielding Effectiveness Measurement of SiP Based on Near-Field Scanning. , 2019, , .  |     | 3         |
| 56 | Admittance Extraction of Loaded Grid Power Distribution Network with Arbitrary Shapes. , 2019, , .  |     | 0         |
| 57 | Broadband Visualization Method for Near Field Scanning. , 2019, , .   |     | 0         |
| 58 | A Two-Port Measurement With Mechanically Robust Handhold Probes for Ultra Low PDN Impedance. , 2019, , .  |     | 2         |
| 59 | Broadband Point Modeling of Equivalent Dipoles Based On Differential Evolution Algorithm. , 2019, , .   |     | 1         |
| 60 | Equivalent Dipoles for the Prediction of IC Noise Coupling. , 2019, , .   |     | 1         |
| 61 | Inductance Extraction of Grid Power Distribution Network. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2018, 8, 1066-1072.                                  | 1.4 | 6         |
| 62 | An Iterative Approach for EMI Source Reconstruction Based on Phaseless and Single-Plane Near-Field Scanning. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 937-944.     | 1.4 | 48        |
| 63 | Notice of Retraction: Analysis of Near-Field Shielding Effectiveness for the SiP Module. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 288-291.                         | 1.4 | 11        |
| 64 | A Novel Electromagnetic Interference Source Reconstruction Method based on Artificial Neural Network. , 2018, , .   |     | 2         |
| 65 | Radiation Source Reconstruction based on Artificial Neural Network for Radio Frequency Interference (RFI) Analysis in Complex System. , 2018, , .                                       |     | 3         |
| 66 | A measurement verification for EMI source reconstruction method based on amplitude-only near-field scanning. , 2018, , .  |     | 2         |
| 67 | A statistical equivalent circuit modelling based on measured and de-embedded S-parameters. , 2018, , .  |     | 0         |
| 68 | Theoretical Study of the First Higher Order Mode in Grounded Graphene Nanoribbons. IEEE Nanotechnology Magazine, 2018, 17, 814-823.   | 1.1 | 5         |
| 69 | Impedance calculation of grid power distribution network with irregular shapes. , 2018, , .   |     | 1         |
| 70 | A Rasorber-Like Waveguide Based on Thin Film. IEEE Microwave and Wireless Components Letters, 2018, 28, 558-560.  | 2.0 | 4         |
| 71 | Notice of Retraction: A Closed-Form Solution for the Impedance Calculation of Grid Power Distribution Network. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 1449-1456. | 1.4 | 11        |
| 72 | Tunable Microwave Absorber Based on Patterned Graphene. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2819-2826.  | 2.9 | 106       |

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|----|---|-----|-----------|
| 73 | Transparent Microwave Absorber Based on Patterned Graphene: Design, Measurement, and Enhancement. IEEE Nanotechnology Magazine, 2017, 16, 484-490.  | 1.1 | 49        |
| 74 | The influence of gradient and sandwich configurations on the electromagnetic interference shielding performance of multilayered thermoplastic polyurethane/graphene composite foams. Composites Science and Technology, 2017, 138, 209-216. | 3.8 | 179       |
| 75 | A Bandpass Frequency Selective Surface With a Low Cross-Polarization Based on Cavities With a Hybrid Boundary. IEEE Transactions on Antennas and Propagation, 2017, 65, 654-661.  | 3.1 | 18        |
| 76 | An improved equivalent circuit model of spoof surface plasmon transmission line. , 2017, , .  |     | 4         |
| 77 | Notice of Retraction: A Novel Coplanar Common-Mode Filter With a Wide Stopband. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 77-83.  | 1.4 | 4         |
| 78 | Near-field scanning and its EMC applications. , 2017, , .   |     | 16        |
| 79 | An effective equivalent radiation source based on near-field scanning for electromagnetic interference estimation. , 2017, , .  |     | 6         |
| 80 | Effects of grounded-lid apertures for package-level electromagnetic interference (EMI) shielding. , 2017, , .   |     | 5         |
| 81 | Recent developments of tunable microwave absorbers using graphene. , 2017, , .  |     | 1         |
| 82 | PCB electromagnetic interference modelling based on reciprocity theorem. , 2017, , .  |     | 2         |
| 83 | Modeling and measurement of a novel shielding design in silicon interposer. , 2016, , .   |     | 2         |
| 84 | A Shielding Structure for Crosstalk Reduction in Silicon Interposer. IEEE Microwave and Wireless Components Letters, 2016, 26, 246-248.   | 2.0 | 10        |
| 85 | 2.5D methodologies for electronic package and PCB modeling: Review and latest development. , 2016, , .  |     | 1         |
| 86 | Near-field measurements based source reconstruction approach for radiated emissions prediction. , 2016, , .   |     | 9         |
| 87 | Signal transmission along Cu-graphene heterogeneous interconnects. , 2016, , .  |     | 1         |
| 88 | Applications of high impedance surfaces for surface wave elimination. , 2016, , .   |     | 3         |
| 89 | Experimental demonstration of transparent microwave absorber based on graphene. , 2016, , .   |     | 8         |
| 90 | Dual-Band Dual Circularly Polarized Microstrip Antenna With Two Eccentric Rings and an Arc-Shaped Conducting Strip. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 834-837.  | 2.4 | 70        |

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|-----|--|-----|-----------|
| 91  | Microcellular graphene foam for improved broadband electromagnetic interference shielding. Carbon, 2016, 102, 154-160.   | 5.4 | 326       |
| 92  | A Novel Tunable Absorber Based on Vertical Graphene Strips. IEEE Microwave and Wireless Components Letters, 2016, 26, 10-12.   | 2.0 | 24        |
| 93  | A novel semi-analytical solution of impedance of grid-type power distribution network. , 2015, , .   |     | 6         |
| 94  | An iterative source reconstruction based method for radiated emissions prediction from PCBs. , 2015, , .   |     | 0         |
| 95  | Transparent microwave absorber based on single layer graphene film. , 2015, , .  |     | 3         |
| 96  | A Compact Meander Line-Resonator Hybrid Structure for Wideband Common-Mode Suppression. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1255-1261.   | 1.4 | 17        |
| 97  | A Particle Swarm Optimization-Based Approach for Predicting Maximum Radiated Emission From PCBs With Dominant Radiators. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1197-1205.        | 1.4 | 28        |
| 98  | A hybrid domain decomposition and optimization method for predicting electromagnetic emissions from printed circuit boards. Journal of Electromagnetic Waves and Applications, 2015, 29, 1082-1092.      | 1.0 | 1         |
| 99  | Three-dimensional tunable frequency selective surface based on vertical graphene micro-ribbons. Journal of Electromagnetic Waves and Applications, 2015, 29, 2130-2138.                                  | 1.0 | 10        |
| 100 | PDN Impedance Modeling for Multiple Through Vias Array in Doped Silicon. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1202-1209.  | 1.4 | 7         |
| 101 | Radio frequency propagation characteristics in disaster scenarios. , 2014, , .   |     | 6         |
| 102 | Full RLGC model extraction of Through Silicon Via (TSV) with charge distribution effects. Journal of Electromagnetic Waves and Applications, 2014, 28, 1596-1609.  | 1.0 | 2         |
| 103 | Intelligent Traffic Guidance System Based on Dynamic Toll Collection Policy. , 2014, , .   |     | 4         |
| 104 | A non-contact graphene surface scattering rate characterization method at microwave frequency by combining Raman spectroscopy and coaxial connectors measurement. Carbon, 2014, 77, 53-58.               | 5.4 | 17        |
| 105 | Analysis of signal transmission along graphene-based interconnect structures. , 2013, , .  |     | 5         |
| 106 | Reconfigurable Parallel Plasmonic Transmission Lines With Nanometer Light Localization and Long Propagation Distance. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4601809-4601809. | 1.9 | 6         |
| 107 | A Novel Hybrid Analytical Method for Impedance Calculation of Power and Ground Planes. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 949-955.  | 1.4 | 4         |
| 108 | Impedance calculation of power and ground planes by using imaging methods. , 2012, , .   |     | 6         |

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|-----|---|-----|-----------|
| 109 | An efficient dipole array model for the accurate prediction of antennas radiation pattern. , 2012, , .  |     | 2         |
| 110 | Distributed decoupling analysis on PG planes for PDN design. , 2012, , .  |     | 0         |
| 111 | A novel method for low impedance design of power and ground planes. , 2011, , .   |     | 0         |
| 112 | Different designs of TSVs for 3D IC: Signal integrity analysis with cascaded scattering matrix. , 2011, , .   |     | 4         |
| 113 | Integral Equation Technique for the Simulation of Signal Integrity and Power Integrity. Frequenz, 2011, 65, .   | 0.6 | 0         |
| 114 | Modeling of the Simultaneous Switching Noise in High Speed Electronic Circuit with the Integral Equation Method and Vector Fitting Method. IEEE Transactions on Magnetics, 2011, 47, 1490-1493. | 1.2 | 6         |
| 115 | Electrical characteristics of graphene for nano-sized coplanar waveguide. , 2011, , .   |     | 0         |
| 116 | A novel imaging method for the impedance calculation of power and ground planes. , 2011, , .  |     | 3         |
| 117 | Impedance calculation of power ground grid by using artificial neural network. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 0, , e2931.               | 1.2 | 0         |