

Xing-Chang Wei

List of Publications by Year in descending order

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#	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.	4.6	4
2	A Hybrid De-Embedding Method for Low Loss and Reciprocal PCB Fixtures. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-8.	4.7	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.	4.6	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.	2.2	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.	5.1	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.	2.2	11
8	A Hybrid Schatten ℓ_p -Norm and ℓ_p -Norm With Plane Wave Expansion Method for Near-Field Transformation. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 2074-2081.	2.2	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.	3.2	2
10	Low-Profile Metasurface-Based Diaphragm for Compartment Shielding of Microwave Cavities. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2048-2059.	4.6	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.	4.3	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.	2.5	9
15	Broadband Radiation Source Reconstruction Based on Phaseless Magnetic Near-Field Scanning. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 113-117.	4.0	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.	2.5	2
17	Design of High-Frequency Differential Line for Ex Probe Calibration. , 2021, , .		0
18	An alternating high- and low impedance common-mode filter for differential striplines. IET Microwaves, Antennas and Propagation, 2021, 15, 1762-1772.	1.4	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.	2.2	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.	2.2	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.	2.2	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.	4.6	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.	2.2	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.	5.1	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.	2.1	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.	5.1	40
47	Subwavelength Periodic Shielding Materials: Toward Enhanced Shielding of the Incomplete Enclosure. IEEE Microwave and Wireless Components Letters, 2019, 29, 113-115.	3.2	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.	4.6	55
49	A High-Frequency and High Spatial Resolution Probe Design for EMI Prediction. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3012-3019.	4.7	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.	2.5	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.	2.2	48
63	Notice of Retraction: Analysis of Near-Field Shielding Effectiveness for the SiP Module. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 288-291.	2.2	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.	2.0	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.	3.2	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.	2.2	11
72	Tunable Microwave Absorber Based on Patterned Graphene. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2819-2826.	4.6	106

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73	Transparent Microwave Absorber Based on Patterned Graphene: Design, Measurement, and Enhancement. IEEE Nanotechnology Magazine, 2017, 16, 484-490.	2.0	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.	7.8	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.	5.1	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.	2.2	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.	3.2	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.	4.0	70

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91	Microcellular graphene foam for improved broadband electromagnetic interference shielding. Carbon, 2016, 102, 154-160.	10.3	326
92	A Novel Tunable Absorber Based on Vertical Graphene Strips. IEEE Microwave and Wireless Components Letters, 2016, 26, 10-12.	3.2	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.	2.2	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.	2.2	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.	1.6	1
99	Three-dimensional tunable frequency selective surface based on vertical graphene micro-ribbons. Journal of Electromagnetic Waves and Applications, 2015, 29, 2130-2138.	1.6	10
100	PDN Impedance Modeling for Multiple Through Vias Array in Doped Silicon. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1202-1209.	2.2	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.	1.6	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.	10.3	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.	2.9	6
107	A Novel Hybrid Analytical Method for Impedance Calculation of Power and Ground Planes. IEEE Transactions on Electromagnetic Compatibility, 2013, 55, 949-955.	2.2	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, .	0.9	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.	2.1	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.	1.9	0