Er-Ping Li

List of Publications by Year
in descending order

225 papers	4,244 citations	172207 29 h-index	133063 59 g-index
229 all docs	229 docs citations	229 times ranked	4556 citing authors

#	Article	IF	Citations
1	Investigation of Localizing Precise Human Abdomen Models for Wireless Capsule Endoscopy Antenna Design. IEEE Transactions on Antennas and Propagation, 2022, 70, 1367-1379.	3.1	3
2	Investigation of Leaky-Wave Antenna With Stable Wide Beam-Scanning Characteristic. IEEE Transactions on Antennas and Propagation, 2022, 70, 240-249.	3.1	11
3	Investigation of Axial Mode Dielectric Helical Antenna. IEEE Transactions on Antennas and Propagation, 2022, 70, 3806-3811.	3.1	4
4	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
5	Improved Leapfrog LOD-FDTD Method With Controlling Parameters. IEEE Microwave and Wireless Components Letters, 2022, 32, 269-272.	2.0	5
6	Au/SnS$_2$/Al Schottky Structure for High Detectivity and Low Dark Current Visible Light Detector. IEEE Electron Device Letters, 2022, 43, 76-79.	2.2	4
7	First-principles investigation of copper diffusion barrier performance in defective 2D layered materials*. Nanotechnology, 2022, 33, 165201.	1.3	2
8	Broadband Janus Scattering from Tilted Dipolar Metagratings. Laser and Photonics Reviews, 2022, 16, .	4.4	18
9	In Situ Customized Illusion Enabled by Global Metasurface Reconstruction. Advanced Functional Materials, 2022, 32, .	7.8	31
10	Design and Analysis of a Novel Compact Metamaterial Absorber Based on Double-Layer ITO Resistive Film for Improving Signal Integrity. IEEE Access, 2022, 10, 24067-24079.	2.6	8
11	Improved convolutional perfectly matched layer with auxiliary differential equation for the weakly conditionally stable finite€difference time€domain method. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	3
12	Analysis of a Novel Resistive Film Absorber for Suppression of Electromagnetic Radiation in System-in-Packages. International Journal of Antennas and Propagation, 2022, 2022, 1-15.	0.7	1
13	Electromagnetic Impact of Interconnect Resistance on STDP Characteristics in Neuromorphic Crossbar Array. , 2022, , .		0
14	Dynamic recognition and mirage using neuro-metamaterials. Nature Communications, 2022, 13, 2694.	5.8	37
15	A Neuro-Space Mapping Method for Harmonic Interference Prediction of SOIFET Radio Frequency Switches. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 1117-1123.	1.4	2
16	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
17	Modeling and Signal Integrity Analysis of RRAM-Based Neuromorphic Chip Crossbar Array Using Partial Equivalent Element Circuit (PEEC) Method. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3490-3500.	3.5	7
18	An Artificial Neural Network Model for Electro-Thermal Effect Affected Hot Carrier Injection Reliability in 14-nm FinFETs. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 4827-4834.	2.9	5

#	Article	IF	Citations
19	Electromagnetic Coupling between Power Distribution Network and On-chip Inductors in Package. , 2022, , .		0
20	Heterogeneous Transfer‐Learning‐Enabled Diverse Metasurface Design. Advanced Optical Materials, 2022, 10, .	3.6	19
21	Symmetry Enhanced Network Architecture Search for Complex Metasurface Design. IEEE Access, 2022, 10, 73533-73547.	2.6	0
22	Dispersion-tunable photonic topological waveguides. Applied Physics Letters, 2022, 121, .	1.5	5
23	A Novel Miniaturized Strong-Coupled FSS Structure With Excellent Angular Stability. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 38-45.	1.4	37
24	Circuit Modeling for RRAM-Based Neuromorphic Chip Crossbar Array With and Without Write-Verify Scheme. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1906-1916.	3.5	18
25	Hierarchical Attention-Based Machine Learning Model for Radiation Prediction of WB-BGA Package. IEEE Transactions on Electromagnetic Compatibility, 2021, 63, 1972-1980.	1.4	16
26	Stop band blocking window modeling with energy absorber in 5G mid‐band cellular communications. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22533.	0.8	0
27	Angle-Insensitive Toroidal Metasurface for High-Efficiency Sensing. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1511-1517.	2.9	13
28	Efficient Nonlinear Behavior Modeling Method for Voltage-Variable Capacitors. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 462-470.	1.4	4
29	Independent Bifocal Metalens Design Based on Deep Learning Algebra. IEEE Photonics Technology Letters, 2021, 33, 403-406.	1.3	8
30	Design of resistor-loaded coding metasurface for independent amplitude and phase control. Journal of Electromagnetic Waves and Applications, 2021, 35, 1575-1586.	1.0	4
31	Realizing transmitted metasurface cloak by a tandem neural network. Photonics Research, 2021, 9, B229.	3.4	71
32	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
33	Terahertz Metasurface Design with Arbitrary Hexagon Patterns Based on Deep Learning. , 2021, , .		1
34	Electromagnetic Shielding Analysis of Different Grounded Bump Distribution in SiP. , 2021, , .		2
35	Fast Prediction for Electromagnetic Shielding Effectiveness of Ground-Via Distribution of SiP by Convolutional Neural Network. , 2021, , .		3
36	A Wideband Circular Polarization Implantable Antenna for Health Monitor Microsystem. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 848-852.	2.4	27

#	Article	IF	Citations
37	Electromagnetic Radiation in the Range of GHz of Integrated Circuit Package with Heat Sink. , 2021, , .		4
38	Demonstration of Spiderâ€Eyesâ€Like Intelligent Antennas for Dynamically Perceiving Incoming Waves. Advanced Intelligent Systems, 2021, 3, 2100066.	3.3	16
39	Enhanced Photodetection Performance of Photodetectors Based on Indium-Doped Tin Disulfide Few Layers. ACS Applied Materials & Interfaces, 2021, 13, 35889-35896.	4.0	24
40	Comparative Study of Surrogate Modeling Methods for Signal Integrity and Microwave Circuit Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1369-1379.	1.4	17
41	Low-Dispersion Leapfrog WCS-FDTD With Artificial Anisotropy Parameters and Simulation of Hollow Dielectric Resonator Antenna Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 5801-5811.	3.1	13
42	Metantenna design with <scp>oneâ€dimensional</scp> holographic concept. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, mmce22536.	0.8	1
43	Design of Conformal Spiral Dual-Band Antenna for Wireless Capsule System. IEEE Access, 2021, 9, 117349-117357.	2.6	13
44	A Novel Miniaturized Multiband Strong Coupled-FSS Structure Insensitive to Almost All Angles and All Polarizations. IEEE Transactions on Antennas and Propagation, 2021, 69, 8470-8478.	3.1	12
45	Fast Calculation of PCB Electromagnetic Radiation Using 1D Boundary Integration. , 2021, , .		3
46	An Efficient Nonlinear Capacitance Model for SOIFET Used as A Switch. , 2021, , .		0
47	Nonlinear Modeling of RF Switch Based on COMSOL Parameter Extraction. , 2021, , .		0
48	Ultra Sharp Curved Waveguide Design based on Topology Optimization. , 2021, , .		0
49	A Novel Miniaturized Ultra-Wideband Frequency Selective Surface With Rapid Band Edge. IEEE Access, 2021, 9, 161854-161861.	2.6	8
50	Ultra Sharp Curved Waveguide Design based on Topology Optimization. , 2021, , .		0
51	A Circuit Model for Electromagnetic Suppressing Spurious Noise of Synchronous DC-DC Buck Convertor. , 2021, , .		1
52	A robust passivity based model predictive control for buck converter suppling constant power load. Energy Reports, 2021, 7, 792-813.	2.5	4
53	A novel continuous control set model predictive control to guarantee stability and robustness for buck power converter in DC microgrids. Energy Reports, 2021, 7, 1400-1415.	2.5	6
54	A Miniaturized Ultra-wideband Resistive Film Absorber for Radiation Suppression. , 2021, , .		0

#	Article	IF	Citations
55	Decision Feedback Equalizer (DFE) Taps Estimation with Machine Learning Methods. , 2021, , .		1
56	Electromagentic Impact of Parasitic Effects on the STDP Characteristics in Neuromorphic Memristor Crossbar Arrays. , 2021, , .		0
57	Investigation of Multilayer Print Circuit Board Probe With Temperature Compensation for Ultra-Wideband Near-Field Measurement. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 840-847.	1.4	1
58	Optimization of Graphene-Based Slot Waveguides for Efficient Modulation. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-5.	1.9	4
59	A novel electromagnetic bandgap design applied for suppression of printed circuit board electromagnetic radiation. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e21990.	0.8	2
60	Enhanced Photoresponse of Indium-Doped Tin Disulfide Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 2607-2614.	4.0	23
61	Cubic lattice–based spherical uniaxial perfectly matched layer for the FDTD method. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2020, 33, e2621.	1.2	1
62	Support Vector Regression-Based Active Subspace (SVR-AS) Modeling of High-Speed Links for Fast and Accurate Sensitivity Analysis. IEEE Access, 2020, 8, 74339-74348.	2.6	26
63	Efficient Isolation of an MIMO Antenna Using Defected Ground Structure. Electronics (Switzerland), 2020, 9, 1265.	1.8	27
64	Expedient Prediction of Eye Opening of High-Speed Links with Input Design Space Dimensionality Reduction. , 2020, , .		2
65	Diffusion Barrier Prediction of Graphene and Boron Nitride for Copper Interconnects by Deep Learning. IEEE Access, 2020, 8, 210542-210549.	2.6	5
66	High-Speed Link Design Optimization Using Machine Learning SVR-AS Method. , 2020, , .		10
67	Visible Phototransistors Based on Vertical Nanolayered Heterostructures of SnS/SnS$_2$ p–n and SnSe$_2$/SnS$_2$ n–n Nanoflakes. ACS Applied Nano Materials, 2020, 3, 6847-6854.	2.4	19
68	Conformal Subgridding and Application to One-Eighth Spherical Shell Dielectric Resonator Antenna Array. IEEE Transactions on Antennas and Propagation, 2020, 68, 4459-4468.	3.1	9
69	Magnetic Metamirrors as Spatial Frequency Filters. IEEE Transactions on Antennas and Propagation, 2020, 68, 5505-5511.	3.1	6
70	Deep-learning-enabled self-adaptive microwave cloak without human intervention. Nature Photonics, 2020, 14, 383-390.	15.6	289
71	Applications of anisotropic one–step leapfrog HIE–FDTD method in microwave circuit and antenna. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22151.	0.8	7
72	Design of One-Eighth Spherical Dielectric Resonator Antenna for 5G Applications. IEEE Access, 2020, 8, 9480-9487.	2.6	5

#	Article	IF	Citations
73	Miniaturized Polarization Insensitive Metamaterial Absorber Applied on EMI Suppression. IEEE Access, 2020, 8, 6583-6590.	2.6	25
74	Electrical—Thermal Cosimulation of Coaxial TSVs With Temperature-Dependent MOS Effect Using Equivalent Circuit Models. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 2247-2256.	1.4	12
75	Performing optical logic operations by a diffractive neural network. Light: Science and Applications, 2020, 9, 59.	7.7	171
76	Ultrawideband chromatic aberration-free meta-mirrors. Advanced Photonics, 2020, 3, .	6.2	63
77	A Compact Ultra-Wideband Polarization-Insensitive Metamaterial Absorber at 5G Millimeter Wave Band. , 2020, , .		0
78	Impact of multiple radiation leak paths on shielding effectiveness of ground vias in conformal-shielded SiP. , 2020, , .		3
79	Near-Field Radiation Estimation and Its Reduction Using a Novel EBG for PCB. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 329-335.	1.4	4
80	Analysis of Multilayer Structure Near- and Far-Field Radiation by the Coupled PP-PEEC and Field-Equivalence Principle Method. IEEE Transactions on Electromagnetic Compatibility, 2019, 61, 495-503.	1.4	9
81	An offset surface to reduce radar cross section for airborne antenna out—band. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21924.	0.8	0
82	Lumped 3-D Equivalent Thermal Circuit Model for Transient Thermal Analysis of TSV Array. , 2019, , .		4
83	Dynamic Thermal Management for 3-D ICs With Time-Dependent Power Map Using Microchannel Cooling and Machine Learning. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1244-1252.	1.4	12
84	Valley Kink States and Topological Channel Intersections in Substrate—Integrated Photonic Circuitry. Laser and Photonics Reviews, 2019, 13, 1900159.	4.4	57
85	Design of Wideband Implantable Antenna for Wireless Capsule Endoscope System. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2706-2710.	2.4	34
86	A Wideband Millimeter Wave Antenna Based on SIW for 5G. , 2019, , .		1
87	EMI Radiation Prediction and Structure Optimization of Packages by Deep Learning. IEEE Access, 2019, 7, 93772-93780.	2.6	11
88	Electron Transport in Graphene-Versus Al/Pd-Coated Thin Cu Films With Low-Surface Roughness: A First Principles Study. IEEE Access, 2019, 7, 84858-84865.	2.6	0
89	High Performance 5G Antenna Radome Based on Absorptive Meta-surface. , 2019, , .		0
90	Efficient Implementation of the CPML in 3-D Hybrid Implicit-Explicit FDTD Method. , 2019, , .		0

#	Article	IF	Citations
91	Equivalent Inductance Analysis and Quantification for PCB PDN Design. , 2019, , .		5
92	Type-I hyperbolic metasurfaces for highly-squeezed designer polaritons with negative group velocity. Nature Communications, 2019, 10, 2002.	5.8	24
93	Direct current remote cloak for arbitrary objects. Light: Science and Applications, 2019, 8, 30.	7.7	19
94	Implementation of convolutional perfectly matched layer for threeâ€dimensional hybrid implicitâ€explicit finiteâ€difference timeâ€domain method. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21741.	0.8	7
95	Experimental Observation of Superscattering. Physical Review Letters, 2019, 122, 063901.	2.9	88
96	First principles calculation of effect of graphene coating on transmission coefficient of Cu thin film with low surface roughness. Journal of Applied Physics, 2019, 125, .	1.1	3
97	Comparison of Machine Learning Techniques for Predictive Modeling of High-Speed Links. , 2019, , .		14
98	Wide-Band Modeling On-Chip Spiral Inductors Using Frequency-Dependent Conformal ADI-FDTD Method. IEEE Access, 2019, 7, 184940-184949.	2.6	6
99	Modeling and Analysis for MOS Capacitance of TSV Considering Temperature Dependence. , 2019, , .		2
100	A Dual-Band Antenna Array with High Gain and Miniaturized Structure. , 2019, , .		1
101	The Method of Locating Electromagnetic Radiation Source in Wire Bonded Ball Grid Array Package. , 2019, , .		1
102	Deep Learning Method for Prediction of Planar Radiating Sources from Near-Field Intensity Data. , 2019, , .		9
103	Spurious-Free Dual-Band Bandpass Frequency-Selective Surfaces With Large Band Ratio. IEEE Transactions on Antennas and Propagation, 2019, 67, 1065-1072.	3.1	25
104	Adaptive Passivity-Based Control of dcâ€"dc Buck Power Converter With Constant Power Load in DC Microgrid Systems. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2019, 7, 2029-2040.	3.7	121
105	Spoof Surface Plasmonic Graphene for Controlling the Transports and Emissions of Electromagnetic Waves. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 50-56.	2.9	7
106	Hydrothermal synthesis and fast photoresponsive characterization of SnS2 hexagonal nanoflakes. Journal of Materials Science, 2019, 54, 2059-2065.	1.7	26
107	Frequency optimization of permeability metamaterial for enhanced resolution. Applied Optics, 2019, 58, 3200.	0.9	1
108	Experimental Realization of an Extreme-Parameter Omnidirectional Cloak. Research, 2019, 2019, 8282641.	2.8	16

#	Article	IF	Citations
109	PCB PDN Prelayout Library for Top-Layer Inductance and the Equivalent Model for Decoupling Capacitors. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1898-1906.	1.4	17
110	Toroidal Localized Spoof Plasmons on Compact Metadisks. Advanced Science, 2018, 5, 1700487.	5.6	27
111	Investigation of SAR Reduction Using Flexible Antenna With Metamaterial Structure in Wireless Body Area Network. IEEE Transactions on Antennas and Propagation, 2018, 66, 3076-3086.	3.1	119
112	Electromagnetic and Thermal Characteristics of Graphite for Radiation Suppression in Wire-Bonded Package Heat Sink. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1445-1453.	1.4	11
113	A 2.5-D Angularly Stable Frequency Selective Surface Using Via-Based Structure for 5G EMI Shielding. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 768-775.	1.4	118
114	A Novel FSS Structure with Great Insensitivity to Incident Angles for High Performance Millimeter Wave Communication Radome. , 2018, , .		1
115	Large modulation capacity in graphene-based slot modulators by enhanced hybrid plasmonic effects. Scientific Reports, 2018, 8, 16830.	1.6	5
116	Machine Learning for 3D-IC Electric-Thermal Simulation and Management. , 2018, , .		1
117	Sliding Mode Control of Parallel-Connected DC-DC Buck Power Converters in DC Microgrid Systems. , 2018, , .		2
118	Design of Dual Frequency Antenna Fed by Coplanar Waveguide. , 2018, , .		0
119	Diodelike Spin-Orbit Interactions of Light in Chiral Metasurfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 7148-7155.	3.1	23
120	Multiphysics Modeling and Simulation of Carrier Dynamics and Thermal Transport in Monolayer MoS2/WSe2 Heterojunction. IEEE Transactions on Electron Devices, 2018, 65, 4542-4547.	1.6	1
121	A Compact Tri - Band Printed Antenna Design. , 2018, , .		0
122	A Coplanar Waveguide Fed Tri-Band Antenna Based on Circular Ring Structure. , 2018, , .		1
123	High-performance photodetectors based on two-dimensional tin(<scp>ii</scp>) sulfide (SnS) nanoflakes. Journal of Materials Chemistry C, 2018, 6, 10036-10041.	2.7	54
124	An Investigation of Electric Resistance of Graphene-Coated Copper Thin Film from First Principles. , 2018, , .		0
125	Miniaturised FSS structure with excellent angular stability based on strong coupling for millimetreâ€wave communication. Electronics Letters, 2018, 54, 511-513.	0.5	10
126	Quantification of EMI for power-ground plane and novel EBG structure for SSN suppression. , 2018, , .		3

#	Article	IF	Citations
127	A novel heatsink with mushroom-type EBG structure for EMI radiation suppression. , 2018, , .		13
128	EMI prediction of packages by deep neural network. , 2018, , .		0
129	Implementation of ultra‐miniaturised frequency‐selective structures based on 2.5D convoluted segments. Electronics Letters, 2018, 54, 476-478.	0.5	14
130	An integrated UHF/UWB tag antenna with radome for indoor positioning system. , 2018, , .		0
131	A Novel Package Lid Using Mushroom-Type EBG Structures for Unintentional Radiation Mitigation. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 1882-1888.	1.4	21
132	Acetone Sensing Properties and Mechanism of Rh-Loaded WO3 Nanosheets. Frontiers in Chemistry, 2018, 6, 385.	1.8	21
133	Design of Ultracompact Graphene-Based Superscatterers. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 130-137.	1.9	23
134	Modeling and Optimization of Substrate Electromagnetic Coupling and Isolation in Modern Lightly Doped CMOS Substrate. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 662-669.	1.4	1
135	A Low-Profile Broadband Bandpass Frequency Selective Surface With Two Rapid Band Edges for 5G Near-Field Applications. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 670-676.	1.4	61
136	Designing an Efficient Multimode Environmental Sensor Based on Graphene‐Silicon Heterojunction. Advanced Materials Technologies, 2017, 2, 1600262.	3.0	55
137	Photodetectors: A Broadband Fluorographene Photodetector (Adv. Mater. 22/2017). Advanced Materials, 2017, 29, .	11.1	1
138	A Broadband Fluorographene Photodetector. Advanced Materials, 2017, 29, 1700463.	11.1	110
139	Improved Hybrid Leapfrog ADI-FDTD Method for Simulating Near-Field Coupling Effects Among Multiple Thin Wire Monopole Antennas on a Complex Platform. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 618-626.	1.4	8
140	An Active Absorber Based on Nonvolatile Floating-Gate Graphene Structure. IEEE Nanotechnology Magazine, 2017, 16, 189-195.	1.1	8
141	Tunable THz Multiband Frequency-Selective Surface Based on Hybrid Metal‐Graphene Structures. IEEE Nanotechnology Magazine, 2017, 16, 1132-1137.	1.1	41
142	Hyperbolic spoof plasmonic metasurfaces. NPG Asia Materials, 2017, 9, e428-e428.	3.8	97
143	Gradient Chiral Metamirrors for Spin‐Selective Anomalous Reflection. Laser and Photonics Reviews, 2017, 11, 1700115.	4.4	89
144	On signal-strength-of-arrival based localization with unknown transmit power. , 2017, , .		2

#	Article	IF	Citations
145	Frequency-Response-Oriented Design and Optimization of N+ Diffusion Guard Ring in Lightly Doped CMOS Substrate. IEEE Transactions on Electromagnetic Compatibility, 2017, 59, 481-487.	1.4	3
146	Machine learning for complex EMI prediction, optimization and localization. , 2017, , .		12
147	Investigation of electrical discontinuity in flip-chip package. , 2017, , .		0
148	A TE/TM independent polarizer based on graphene interferometer. , 2017, , .		0
149	A graphene-on-gap modulator with high modulation efficiency. , 2017, , .		0
150	Multiphysics modeling and simulation of ultra-thin channel Germanium on insulator (GeOI) MOSFETs. , 2017, , .		0
151	Mitigation of unintentional radiation from the package lid using PMC packaging. , 2017, , .		2
152	Design of a novel 2.5-dimensional wideband frequency selective surface with stable perfomance for fifth generation communications. , 2017, , .		2
153	A broadband and tunable absorber with non-volatile floating-gate graphene structure. , 2017, , .		0
154	A circular-shaped perfectly matched layer strategy for rectangular FDTD grids. , 2017, , .		2
155	Application of resistive graphene lid for suppressing radiation emission in WB-BGA package. , 2017, , .		1
156	A compact microstrip antenna with four operating frequency points. , 2017, , .		0
157	A miniaturized quad-band printed antenna. , 2017, , .		0
158	Highly efficient graphene-on-gap modulator by employing the hybrid plasmonic effect. Optics Letters, 2017, 42, 1736.	1.7	44
159	Electrical-thermal co-analysis of through silicon via with equivalent circuit model. , 2017, , .		5
160	Design of the Addressable Test Structure for ${S}$ -Parameter-Based RF Device Characterization. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2122-2131.	2.9	0
161	Improved hybrid leapfrog ADI-FDTD method for simulating complex electromagnetic environment effects (E3) on a warship with multi-wire antennas. , 2016, , .		2
162	Fullâ€Polarization 3D Metasurface Cloak with Preserved Amplitude and Phase. Advanced Materials, 2016, 28, 6866-6871.	11.1	259

#	Article	IF	Citations
163	Investigation of shorting vias for suppressing common-mode radiation in different frequency range. , 2016, , .		1
164	Terahertz modulator based on graphene-embedded waveguide. , 2016, , .		0
165	Plasmonic transmission lines with zero crosstalk. , 2016, , .		1
166	The investigation of the substrates noise suppression using guard rings in CMOS technology. , 2016, , .		0
167	Modeling and measurement of a novel shielding design in silicon interposer. , 2016, , .		2
168	Conformal FDTD method for simulating the interaction of an EMP with multiple PEC/dielectric wedge structures. , 2016, , .		0
169	A Shielding Structure for Crosstalk Reduction in Silicon Interposer. IEEE Microwave and Wireless Components Letters, 2016, 26, 246-248.	2.0	10
170	Contacts between Two- and Three-Dimensional Materials: Ohmic, Schottky, and p–n Heterojunctions. ACS Nano, 2016, 10, 4895-4919.	7.3	308
171	2.5D methodologies for electronic package and PCB modeling: Review and latest development. , 2016, , .		1
172	A transparent broadband absorber based on graphene. , 2016, , .		2
173	Noise analysis in injection locked frequency divider using frequency modulation. , 2016, , .		0
174	Electrothermal Effects on Hot-Carrier Reliability in SOI MOSFETs—AC Versus Circuit-Speed Random Stress. IEEE Transactions on Electron Devices, 2016, 63, 3669-3676.	1.6	24
175	Non-contact radio frequency shielding and wave guiding by multi-folded transformation optics method. Scientific Reports, 2016, 6, 36846.	1.6	10
176	Signal transmission along Cu-graphene heterogeneous interconnects. , 2016, , .		1
177	A tunable antenna based on loaded graphene sheets for GHz applications. , 2016, , .		0
178	Concealing arbitrary objects remotely with multi-folded transformation optics. Light: Science and Applications, 2016, 5, e16177-e16177.	7.7	52
179	Large slow light capacity in graphene-based grating waveguide. , 2016, , .		0
180	Scaling Analysis of High Gain Monolayer MoS_2 Photodetector for Its Performance Optimization. IEEE Transactions on Electron Devices, 2016, 63, 1608-1614.	1.6	12

#	Article	IF	Citations
181	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
182	Iteration-Free-Phase Retrieval for Directive Radiators Using Field Amplitudes on Two Closely Separated Observation Planes. IEEE Transactions on Electromagnetic Compatibility, 2016, 58, 607-610.	1.4	27
183	A Novel Tunable Absorber Based on Vertical Graphene Strips. IEEE Microwave and Wireless Components Letters, 2016, 26, 10-12.	2.0	24
184	Optimization for cooperative spectrum sensing with energy detection in disaster environment. , 2015, , .		2
185	A novel semi-analytical solution of impedance of grid-type power distribution network. , 2015, , .		6
186	Large‐Scale Far‐Infrared Invisibility Cloak Hiding Object from Thermal Detection. Advanced Optical Materials, 2015, 3, 1738-1742.	3.6	28
187	Improved Slow Light Capacity In Graphene-based Waveguide. Scientific Reports, 2015, 5, 15335.	1.6	31
188	An efficient hybrid hot-spotting and optimization method for radiated emission compliance check. , 2015, , .		1
189	Investigation of the attenuation characteristics of radio signal in ruins. , 2015, , .		3
190	The investigation of frequency modulation in voltage-controlled oscillator due to low frequency interference from supply voltage. , 2015, , .		2
191	An iterative source reconstruction based method for radiated emissions prediction from PCBs. , 2015, , .		0
192	A novel three dimensional tunable frequency selective surface based on graphene micro-ribbons. , 2015, , .		0
193	A tunable wideband absorber based on periodic resistive patterned graphene. , 2015, , .		1
194	P-minus substrate guard ring modeling for the purpose of noise isolation in CMOS substrates. , 2015, , .		1
195	A Compact Meander Line-Resonator Hybrid Structure for Wideband Common-Mode Suppression. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 1255-1261.	1.4	17
196	Experimental Characterization of Radio Channel in Ruins Environment. IEEE Antennas and Wireless Propagation Letters, 2015, , 1-1.	2.4	10
197	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
198	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

#	Article	IF	Citations
199	Electrothermal Investigation on Vertically Aligned Single-Walled Carbon Nanotube Contacted Phase-Change Memory Array for 3-D ICs. IEEE Transactions on Electron Devices, 2015, 62, 3258-3263.	1.6	15
200	Prediction of PCB radiated emission in shielding cavity using equivalent dipole modeling. , 2015, , .		7
201	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
202	A Full-Parameter, Broadband, Homogeneous, and Compact Waveguide Coupler Designed With Transformation Optics. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 634-637.	2.4	8
203	Modeling and characterization of Joule heating in metal core of TSV. , 2014, , .		3
204	PDN Impedance Modeling for Multiple Through Vias Array in Doped Silicon. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 1202-1209.	1.4	7
205	Radio frequency propagation characteristics in disaster scenarios. , 2014, , .		6
206	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
207	A Graphene-Enhanced Fiber-Optic Phase Modulator With Large Linear Dynamic Range. IEEE Photonics Technology Letters, 2014, 26, 1867-1870.	1.3	24
208	Nanomaterial in microwave and millimeterwave engineering research in China. , 2014, , .		0
209	The study of few-layer graphene based Machâˆ¨Zehnder modulator. Optics Communications, 2014, 323, 49-53.	1.0	41
210	A circuit method to integrate metamaterial and graphene in absorber design. Optics Communications, 2014, 329, 76-80.	1.0	54
211	Ultra-compact graphene-embedded optical phase modulators. , 2014, , .		5
212	Recent developments in graphene-based optical modulators. Frontiers of Optoelectronics, 2014, 7, 277-292.	1.9	17
213	Intelligent Traffic Guidance System Based on Dynamic Toll Collection Policy. , 2014, , .		4
214	Ab initio study of electronic and optical behavior of two-dimensional silicon carbide. Journal of Materials Chemistry C, 2013, 1, 2131.	2.7	148
215	Dual-band bandpass filter using centrally coupled resonators (CCRs). Journal of Electromagnetic Waves and Applications, 2013, 27, 1059-1067.	1.0	1
216	Analysis of signal transmission along graphene-based interconnect structures. , 2013, , .		5

#	Article	IF	Citations
217	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
218	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
219	An efficient dipole array model for the accurate prediction of antennas radiation pattern. , 2012, , .		2
220	Cross-Diabolo Nanoantenna for Localizing and Enhancing Magnetic Field With Arbitrary Polarization. Journal of Lightwave Technology, 2012, 30, 829-833.	2.7	12
221	A novel method for low impedance design of power and ground planes. , 2011, , .		0
222	Integral Equation Technique for the Simulation of Signal Integrity and Power Integrity. Frequenz, 2011, 65, .	0.6	0
223	Electrical characteristics of graphene for nano-sized coplanar waveguide. , 2011, , .		0
224	A novel imaging method for the impedance calculation of power and ground planes. , 2011, , .		3
225	Development of the Three-Dimensional Unconditionally Stable LOD-FDTD Method. IEEE Transactions on Antennas and Propagation, 2008, 56, 3596-3600.	3.1	120