

Maokun Li

List of Publications by Citations

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127
papers

2,086
citations

24
h-index

41
g-index

193
ext. papers

2,960
ext. citations

3.6
avg, IF

5.52
L-index

#	Paper	IF	Citations
127	A programmable metasurface with dynamic polarization, scattering and focusing control. <i>Scientific Reports</i> , 2016 , 6, 35692	4.9	231
126	. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 2246-2254	4.9	125
125	A 1600-Element Dual-Frequency Electronically Reconfigurable Reflectarray at X/Ku-Band. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3024-3032	4.9	84
124	DNNs as Applied to Electromagnetics, Antennas, and Propagation A Review. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 2225-2229	3.8	79
123	A Double-Layer Transmitarray Antenna Using Malta Crosses With Vias. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 1120-1125	4.9	79
122	A REVIEW OF DEEP LEARNING APPROACHES FOR INVERSE SCATTERING PROBLEMS (INVITED REVIEW). <i>Progress in Electromagnetics Research</i> , 2020 , 167, 67-81	3.8	75
121	A Study of Phase Quantization Effects for Reconfigurable Reflectarray Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 302-305	3.8	66
120	Supervised Descent Learning Technique for 2-D Microwave Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3550-3554	4.9	59
119	A Broadband High-Efficiency Reconfigurable Reflectarray Antenna Using Mechanically Rotational Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 3959-3966	4.9	58
118	Design and Experiment of a Near-Zero-Thickness High-Gain Transmit-Reflect-Array Antenna Using Anisotropic Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 2853-2861	4.9	58
117	A contrast source inversion method in the wavelet domain. <i>Inverse Problems</i> , 2013 , 29, 025015	2.3	57
116	Design and Measurement of a 1-bit Reconfigurable Transmitarray With Subwavelength H-Shaped Coupling Slot Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 3500-3504	4.9	41
115	Design of Resistor-Loaded Reflectarray Elements for Both Amplitude and Phase Control. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 1159-1162	3.8	38
114	An FSS-Backed Ku/Ka Quad-Band Reflectarray Antenna for Satellite Communications. <i>IEEE Transactions on Antennas and Propagation</i> , 2018 , 66, 4353-4358	4.9	37
113	An FSS-Backed 20/30-GHz Dual-Band Circularly Polarized Reflectarray With Suppressed Mutual Coupling and Enhanced Performance. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 926-931	4.9	34
112	Coding Programmable Metasurfaces Based on Deep Learning Techniques. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2020 , 10, 114-125	5.2	33
111	A Low-Cost Metal-Only Reflectarray Using Modified Slot-Type Phoenix Element With 360° Phase Coverage. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 1556-1560	4.9	33

110	Metasurface-Based Ultrathin Beam Splitter with Variable Split Angle and Power Distribution. <i>ACS Photonics</i> , 2018 , 5, 2997-3002	6.3	33
109	Single-Layer Dual-Band Reflectarray Antennas With Wide Frequency Ratios and High Aperture Efficiencies Using Phoenix Elements. <i>IEEE Transactions on Antennas and Propagation</i> , 2017 , 65, 612-622	4.9	31
108	A Single-Layer High-Efficiency Wideband Reflectarray Using Hybrid Design Approach. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 884-887	3.8	31
107	An Efficient Dual-Band Orthogonally Polarized Transmitarray Design Using Three-Dipole Elements. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 319-322	3.8	29
106	A 1-Bit Multipolarization Reflectarray Element for Reconfigurable Large-Aperture Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 581-584	3.8	28
105	A 1-Bit Bidirectional Reconfigurable Transmit-Reflect-Array Using a Single-Layer Slot Element With PIN Diodes. <i>IEEE Transactions on Antennas and Propagation</i> , 2019 , 67, 6205-6210	4.9	26
104	. <i>IEEE Transactions on Antennas and Propagation</i> , 2012 , 60, 3361-3372	4.9	25
103	A Novel 1 Bit Wide-Angle Beam Scanning Reconfigurable Transmitarray Antenna Using an Equivalent Magnetic Dipole Element. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 5691-5695	4.9	24
102	A 100-GHz Metal-Only Reflectarray for High-Gain Antenna Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 178-181	3.8	23
101	Application of supervised descent method to transient electromagnetic data inversion. <i>Geophysics</i> , 2019 , 84, E225-E237	3.1	21
100	Dual-Layer Transmitarray Antenna With High Transmission Efficiency. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6003-6012	4.9	20
99	A Mechanically Reconfigurable Reflectarray With Slotted Patches of Tunable Height. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 555-558	3.8	20
98	A Supervised Descent Learning Technique for Solving Directional Electromagnetic Logging-While-Drilling Inverse Problems. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 8013-8025	8.1	19
97	Three-Dimensional Electrical Impedance Tomography With Multiplicative Regularization. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 2470-2480	5	19
96	A 10 240-Element Reconfigurable Reflectarray With Fast Steerable Monopulse Patterns. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 173-181	4.9	19
95	Inversion of controlled-source electromagnetic data using a model-based approach. <i>Geophysical Prospecting</i> , 2010 , 58, 455-467	1.9	18
94	. <i>IEEE Antennas and Propagation Magazine</i> , 2021 , 63, 39-51	1.7	17
93	Study on Joint Inversion Algorithm of Acoustic and Electromagnetic Data in Biomedical Imaging. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2019 , 4, 2-11	1.5	17

92	Study on a Fast Solver for Poisson's Equation Based on Deep Learning Technique. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 6725-6733	4.9	16
91	Study on a Poisson's equation solver based on deep learning technique 2017 ,		16
90	A High-Gain Dual-Band and Dual-Polarized Transmitarray Using Novel Loop Elements. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1213-1217	3.8	15
89	Application of supervised descent method for 2D magnetotelluric data inversion. <i>Geophysics</i> , 2020 , 85, WA53-WA65	3.1	14
88	Pixel- and Model-Based Microwave Inversion With Supervised Descent Method for Dielectric Targets. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 8114-8126	4.9	13
87	Supervised Descent Learning for Thoracic Electrical Impedance Tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 1360-1369	5	13
86	Design and Implementation of a Wideband 1-Bit Transmitarray Based on a Yagi-Utdal Unit Cell. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4229-4234	4.9	13
85	Generalized Boundary Conditions in Surface Electromagnetics: Fundamental Theorems and Surface Characterizations. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1891	2.6	12
84	Application of a two-and-a-half dimensional model-based algorithm to crosswell electromagnetic data inversion. <i>Inverse Problems</i> , 2010 , 26, 074013	2.3	12
83	Design and Measurement of a Reconfigurable Transmitarray Antenna With Compact Varactor-Based Phase Shifters. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 1-1	3.8	12
82	Quasi-Periodic Array Modeling Using Reduced Basis Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 825-828	3.8	11
81	A novel 2-bit reconfigurable reflectarray element for both linear and circular polarizations 2017 ,		11
80	Design and Experiment of a Dual-Band 1 Bit Reconfigurable Reflectarray Antenna With Independent Large-Angle Beam Scanning Capability. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 1896-1900	3.8	11
79	Low-Frequency Data Prediction With Iterative Learning for Highly Nonlinear Inverse Scattering Problems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 1-1	4.1	10
78	Artificial Intelligence: New Frontiers in Real-Time Inverse Scattering and Electromagnetic Imaging. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	10
77	Design of a Low-Cost Single-Layer X/Ku Dual-Band Metal-Only Reflectarray Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2106-2109	3.8	8
76	A Low-Profile Compact Dual-Band L-Shape Monopole Antenna for Microwave Thorax Monitoring. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 448-452	3.8	8
75	Neural network-based supervised descent method for 2D electrical impedance tomography. <i>Physiological Measurement</i> , 2020 , 41, 074003	2.9	8

74	A Low-Profile Quad-Beam Transmitarray. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 1340-1344	3.8	8
73	Single-Layer Reflectarray Antenna With Independent Dual-CP Beam Control. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020 , 19, 532-536	3.8	8
72	Physics Embedded Deep Neural Network for Solving Full-wave Inverse Scattering Problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	8
71	Joint Inversion of Audio-Magnetotelluric and Seismic Travel Time Data With Deep Learning Constraint. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 7982-7995	8.1	8
70	First arrival travelttime tomography using supervised descent learning technique. <i>Inverse Problems</i> , 2019 , 35, 105008	2.3	7
69	Acceleration of 2-D Multiplicative Regularized Contrast Source Inversion Algorithm Using Paralleled Computing Architecture. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 441-444	3.8	7
68	Hybrid Polarization-Phase Tuning Methodology for Reflectarray Antennas. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 5534-5545	4.9	7
67	Efficient Reciprocity-Based Hybrid Approach for Analyzing Radiated Susceptibility Responses of Multilayer PCBs. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2017 , 59, 952-961	2	6
66	Electromagnetic Inverse Problems [Guest Editorial]. <i>IEEE Antennas and Propagation Magazine</i> , 2017 , 59, 9-115	1.7	6
65	A Passive Temperature-Sensing Antenna Based on a Bimetal Strip Coil. <i>Sensors</i> , 2017 , 17,	3.8	6
64	Design of a 2-bit reconfigurable reflectarray element using two MEMS switches 2015 ,		6
63	Solving Combined Field Integral Equation With Deep Neural Network for 2-D Conducting Object. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021 , 20, 538-542	3.8	6
62	Physics Embedded Deep Neural Network for Solving Volume Integral Equation: 2D Case. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 1-1	4.9	6
61	Analysis of Reflectarray Antenna Elements Under Arbitrary Incident Angles and Polarizations Using Generalized Boundary Conditions. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 2208-2212	3.8	6
60	Design of Artificial Matching Layers With Arbitrary Permittivity Using a Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 1445-1448	3.8	6
59	Reflectarray element analysis based on generalized sheet transition conditions 2017 ,		5
58	Three-Dimensional Joint Inversion of EM and Acoustic Data Based on Contrast Source Inversion. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2020 , 5, 28-36	1.5	5
57	Design of a Ku-band triple-layer perforated dielectric transmitarray antenna 2016 ,		5

56	A Compact Dual-Band Folded-Cavity Antenna for Microwave Biomedical Imaging Applications 2019 ,		5
55	Fast Nonuniform Metasurface Analysis in FDTD Using Surface Susceptibility Model. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 7121-7130	4.9	5
54	Feasibility study of acoustic imaging for human thorax using an acoustic contrast source inversion algorithm. <i>Journal of the Acoustical Society of America</i> , 2018 , 144, 2782	2.2	5
53	Synthesis of Reflectarray Based on Deep Learning Technique 2018 ,		5
52	A Dual-Band Orthogonally Polarized Contour Beam Transmitarray Design. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 4538-4545	4.9	5
51	Quasi-Periodic Array Modeling Using Reduced Basis From Elemental Array. <i>IEEE Journal on Multiscale and Multiphysics Computational Techniques</i> , 2017 , 2, 202-208	1.5	4
50	A feasibility study of microwave respiration monitoring 2017 ,		4
49	Design of a circularly polarized reconfigurable reflectarray using micromotors 2015 ,		4
48	Design of a dual-frequency broadband reflectarray using triple-resonance elements 2015 ,		4
47	Real-Time Mode Switching and Beam Scanning of High-Gain OAM Waves Using a 1-Bit Reconfigurable Reflectarray Antenna. <i>Electronics (Switzerland)</i> , 2020 , 9, 2181	2.6	4
46	Study on a Recurrent Convolutional Neural Network Based FDTD Method 2019 ,		4
45	A Fast Modeling Algorithm for Quasi-Periodic Array. <i>IEEE Transactions on Antennas and Propagation</i> , 2021 , 69, 584-587	4.9	4
44	Design, Analysis, and Experiment on High-Performance Orbital Angular Momentum Beam Based on 1-Bit Programmable Metasurface. <i>IEEE Access</i> , 2021 , 9, 18585-18596	3.5	4
43	Application of Multitask Learning for 2-D Modeling of Magnetotelluric Surveys: TE Case. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-9	8.1	4
42	Mode analysis of 1-Bit reflectarray element using p-i-n diode at W-band 2017 ,		3
41	Design of an amplifying reflectarray antenna with improved isolation performance 2016 ,		3
40	Dual-band dual-polarized transmitarray for satellite communications 2018 ,		3
39	A Distributed Power-Amplifying Reflectarray Antenna for EIRP Boost Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017 , 16, 2742-2745	3.8	3

38	Application of multiplicative regularization for electrical impedance tomography 2017 ,		3
37	Phase error analysis for reflectarray antennas based on study of quasi-periodic effect 2017 ,		3
36	Radiation performances of conformal dielectric reflectarray antennas at sub-millimeter waves 2016 ,		3
35	Innovative Machine Learning Techniques for Biomedical Imaging 2019 ,		3
34	Supervised Descent Method for Electrical Impedance Tomography 2019 ,		3
33	Design of a 1-bit Reconfigurable Transmitarray Element Using an Equivalent Magnetic Dipole 2018 ,		3
32	Ultra-Wide-Scanning Conformal Heterogeneous Phased Array Antenna Based on Deep Deterministic Policy Gradient Algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	3
31	Design Method for Modulated Metasurface Antennas Composed of Anisotropic Elements Based on Generalized Boundary Conditions. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 1848-1852	3.8	2
30	Characterization of metascreens based onabinet's principle and generalized sheet transition conditions for metafilms 2017 ,		2
29	A high gain broadband transmitarray antenna using dual-resonant E-shaped element. <i>Microwave and Optical Technology Letters</i> , 2018 , 60, 1531-1536	1.2	2
28	Design of a multi-polarization double-layer transmitarray element using cross dipoles with vias 2016 ,		2
27	Dual-frequency reconfigurable patch antenna with thermal switches for temperature monitoring 2016 ,		2
26	Application of the Variable Projection Scheme for Calibration in Electromagnetic Data Inversion. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 332-335	4.9	2
25	A wideband reflectarray design using novel phasing rings 2017 ,		2
24	Supervised Descent Method for Full-wave Microwave Imaging 2019 ,		2
23	Supervised Descent Method for 2D Magnetotelluric Inversion using Adam Optimization 2019 ,		2
22	A Feasibility Study of 2-D Microwave Thorax Imaging Based on the Supervised Descent Method. <i>Electronics (Switzerland)</i> , 2021 , 10, 352	2.6	2
21	Study of a low-profile transmitarray element using 3 non-identical layers 2018 ,		2

20	Design of a Ku-band 1-bit reconfigurable transmitarray with 16 \times 16 slot coupled elements 2017 ,		1
19	Application of Supervised Descent Method to Parametric Level-set Approach 2019 ,		1
18	Design and Optimization of a Mechanically Reconfigurable Reflectarray Antenna with Pixel Patch Elements Using Genetic Algorithm 2019 ,		1
17	Design of a dual-band orthogonally polarized transmitarray using 3-dipole elements 2017 ,		1
16	Design of a single-layer dual-band reflectarray using Phoenix elements 2015 ,		1
15	Electromagnetic Modeling Using an FDTD-Equivalent Recurrent Convolution Neural Network: Accurate Computing on a Deep Learning Framework.. <i>IEEE Antennas and Propagation Magazine</i> , 2021 , 2-11	1.7	1
14	A 1-bit Reconfigurable Reflectarray Element with Independent Dual-band Phase Controlling Capability 2019 ,		1
13	3-D Model-Based Inversion Using Supervised Descent Method for Aspect-Limited Microwave Data of Metallic Targets. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-10	8.1	1
12	Characterization of Multiple-Layer Anisotropic Metasurfaces Based on Generalized Boundary Conditions 2018 ,		1
11	A Multi-bit Reconfigurable Transmitarray Design Approach Using Cascaded Spatial Phase Shifters 2018 ,		1
10	Study on a 3D Poisson's Equation Solver Based on Deep Learning Technique 2018 ,		1
9	Reconfigurable sensing antenna for mechanical rotation monitoring 2018 ,		1
8	Characteristic Model and Efficient FDTD-SPM Algorithm for Fishnet Metasurfaces Analysis. <i>IEEE Transactions on Antennas and Propagation</i> , 2022 , 1-1	4.9	1
7	Teaching Electromagnetics to Next-Generation Engineers—the ELEDIA Recipe: The ELEDIA teaching style. <i>IEEE Antennas and Propagation Magazine</i> , 2020 , 62, 50-61	1.7	0
6	Analysis of Nonlinear Metallic Metasurface Elements Using Maxwell-Hydrodynamic Model With Time-Domain Perturbation Method. <i>IEEE Transactions on Antennas and Propagation</i> , 2020 , 68, 2213-2223	4.9	0
5	A Microwave Thorax Imaging System Based on Symmetrical Dipole Antenna and One-Step Supervised Descent Method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	0
4	Study on 3-D Acoustic Imaging for Human Thorax Based on Contrast Source Inversion. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 1533-1543	3.2	
3	Electromagnetic Inverse Problems for Sensing and Imaging. <i>IEEE Antennas and Propagation Magazine</i> , 2016 , 58, 17-17	1.7	

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| 2 | A Low-Profile Transmissive Metasurface for Transformation of Plane Wave to Contour Beam Pattern Using 4-Arm Spiral Element. <i>IEEE Access</i> , 2021 , 9, 39792-39797 | 3.5 |
| 1 | Modeling of Multiscale Wave Interactions Based on an Iterative Scheme of MoM-PO-EPA Algorithm. <i>Electronics (Switzerland)</i> , 2022 , 11, 990 | 2.6 |