Shenheng Xu

List of Publications by Year
in descending order

189 papers	4,514 citations	94433 37 h-index	114465 63 g-index
189 all docs	189 docs citations	189 times ranked	2420 citing authors

#	Article	IF	Citations
1	Reconfigurable Intelligent Surface-Based Wireless Communications: Antenna Design, Prototyping, and Experimental Results. IEEE Access, 2020, 8, 45913-45923.	4.2	432
2	A programmable metasurface with dynamic polarization, scattering and focusing control. Scientific Reports, 2016, 6, 35692.	3.3	382
3	A 1-Bit 10×10 Reconfigurable Reflectarray Antenna: Design, Optimization, and Experiment. IEEE Transactions on Antennas and Propagation, 2016, 64, 2246-2254.	5.1	257
4	A 1600-Element Dual-Frequency Electronically Reconfigurable Reflectarray at X/Ku-Band. IEEE Transactions on Antennas and Propagation, 2017, 65, 3024-3032.	5.1	177
5	A Double-Layer Transmitarray Antenna Using Malta Crosses With Vias. IEEE Transactions on Antennas and Propagation, 2016, 64, 1120-1125.	5.1	129
6	A Study of Phase Quantization Effects for Reconfigurable Reflectarray Antennas. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 302-305.	4.0	117
7	A Broadband High-Efficiency Reconfigurable Reflectarray Antenna Using Mechanically Rotational Elements. IEEE Transactions on Antennas and Propagation, 2017, 65, 3959-3966.	5.1	112
8	Design and Experiment of a Near-Zero-Thickness High-Gain Transmit-Reflect-Array Antenna Using Anisotropic Metasurface. IEEE Transactions on Antennas and Propagation, 2018, 66, 2853-2861.	5.1	100
9	Supervised Descent Learning Technique for 2-D Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2019, 67, 3550-3554.	5.1	95
10	A Ka-Band Reflectarray Antenna Integrated With Solar Cells. IEEE Transactions on Antennas and Propagation, 2014, 62, 5539-5546.	5.1	93
11	Design and Measurement of a 1-bit Reconfigurable Transmitarray With Subwavelength H-Shaped Coupling Slot Elements. IEEE Transactions on Antennas and Propagation, 2019, 67, 3500-3504.	5.1	90
12	A Single-Layer Dual-Band Circularly Polarized Reflectarray With High Aperture Efficiency. IEEE Transactions on Antennas and Propagation, 2015, 63, 3317-3320.	5.1	80
13	A Low-Cost Metal-Only Reflectarray Using Modified Slot-Type Phoenix Element With 360° Phase Coverage. IEEE Transactions on Antennas and Propagation, 2016, 64, 1556-1560.	5.1	71
14	A Novel 1 Bit Wide-Angle Beam Scanning Reconfigurable Transmitarray Antenna Using an Equivalent Magnetic Dipole Element. IEEE Transactions on Antennas and Propagation, 2020, 68, 5691-5695.	5.1	71
15	An FSS-Backed Ku/Ka Quad-Band Reflectarray Antenna for Satellite Communications. IEEE Transactions on Antennas and Propagation, 2018, 66, 4353-4358.	5.1	69
16	Active Reconfigurable Intelligent Surface: Fully-Connected or Sub-Connected?. IEEE Communications Letters, 2022, 26, 167-171.	4.1	69
17	Coding Programmable Metasurfaces Based on Deep Learning Techniques. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2020, 10, 114-125.	3.6	67
18	A Novel Phase Synthesis Approach for Wideband Reflectarray Design. IEEE Transactions on Antennas and Propagation, 2015, 63, 4189-4193.	5.1	65

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19	Metasurface-Based Ultrathin Beam Splitter with Variable Split Angle and Power Distribution. ACS Photonics, 2018, 5, 2997-3002.	6.6	64
20	An FSS-Backed 20/30-GHz Dual-Band Circularly Polarized Reflectarray With Suppressed Mutual Coupling and Enhanced Performance. IEEE Transactions on Antennas and Propagation, 2017, 65, 926-931.	5.1	62
21	A 10 240-Element Reconfigurable Reflectarray With Fast Steerable Monopulse Patterns. IEEE Transactions on Antennas and Propagation, 2021, 69, 173-181.	5.1	61
22	Design of Resistor-Loaded Reflectarray Elements for Both Amplitude and Phase Control. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1159-1162.	4.0	59
23	A Metal-Only Reflectarray Antenna Using Slot-Type Elements. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1553-1556.	4.0	58
24	A 1-Bit Bidirectional Reconfigurable Transmit-Reflect-Array Using a Single-Layer Slot Element With PIN Diodes. IEEE Transactions on Antennas and Propagation, 2019, 67, 6205-6210.	5.1	58
25	Single-Layer Dual-Band Reflectarray Antennas With Wide Frequency Ratios and High Aperture Efficiencies Using Phoenix Elements. IEEE Transactions on Antennas and Propagation, 2017, 65, 612-622.	5.1	55
26	A 1-Bit Multipolarization Reflectarray Element for Reconfigurable Large-Aperture Antennas. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 581-584.	4.0	54
27	Dual-Layer Transmitarray Antenna With High Transmission Efficiency. IEEE Transactions on Antennas and Propagation, 2020, 68, 6003-6012.	5.1	54
28	A Single-Layer High-Efficiency Wideband Reflectarray Using Hybrid Design Approach. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 884-887.	4.0	50
29	An Efficient Dual-Band Orthogonally Polarized Transmitarray Design Using Three-Dipole Elements. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 319-322.	4.0	49
30	A 100-GHz Metal-Only Reflectarray for High-Gain Antenna Applications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 178-181.	4.0	46
31	A Mechanically Reconfigurable Reflectarray With Slotted Patches of Tunable Height. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 555-558.	4.0	46
32	1 Bit Dual-Linear Polarized Reconfigurable Transmitarray Antenna Using Asymmetric Dipole Elements With Parasitic Bypass Dipoles. IEEE Transactions on Antennas and Propagation, 2021, 69, 1188-1192.	5.1	44
33	Design and Implementation of a Wideband 1-Bit Transmitarray Based on a Yagiâ€"Vivaldi Unit Cell. IEEE Transactions on Antennas and Propagation, 2021, 69, 4229-4234.	5.1	44
34	Generalized Boundary Conditions in Surface Electromagnetics: Fundamental Theorems and Surface Characterizations. Applied Sciences (Switzerland), 2019, 9, 1891.	2.5	42
35	Study on a Fast Solver for Poissonâ€™s Equation Based on Deep Learning Technique. IEEE Transactions on Antennas and Propagation, 2020, 68, 6725-6733.	5.1	42
36	Machine Learning in Electromagnetics With Applications to Biomedical Imaging: A Review. IEEE Antennas and Propagation Magazine, 2021, 63, 39-51.	1.4	42

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37	Study on Joint Inversion Algorithm of Acoustic and Electromagnetic Data in Biomedical Imaging. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2019, 4, 2-11.	2.2	37
38	Design and Experiment of a Dual-Band 1 Bit Reconfigurable Reflectarray Antenna With Independent Large-Angle Beam Scanning Capability. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1896-1900.	4.0	37
39	A High-Gain Dual-Band and Dual-Polarized Transmitarray Using Novel Loop Elements. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1213-1217.	4.0	34
40	Three-Dimensional Electrical Impedance Tomography With Multiplicative Regularization. IEEE Transactions on Biomedical Engineering, 2019, 66, 2470-2480.	4.2	34
41	Design and Measurement of a Reconfigurable Transmitarray Antenna With Compact Varactor-Based Phase Shifters. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1998-2002.	4.0	34
42	Study on a Poisson's equation solver based on deep learning technique. , 2017, , .		31
43	Pixel- and Model-Based Microwave Inversion With Supervised Descent Method for Dielectric Targets. IEEE Transactions on Antennas and Propagation, 2020, 68, 8114-8126.	5.1	30
44	A Ka-Band High-Efficiency Transparent Reflectarray Antenna Integrated With Solar Cells. IEEE Access, 2018, 6, 60843-60851.	4.2	29
45	Application of supervised descent method for 2D magnetotelluric data inversion. Geophysics, 2020, 85, WA53-WA65.	2.6	29
46	Supervised Descent Learning for Thoracic Electrical Impedance Tomography. IEEE Transactions on Biomedical Engineering, 2021, 68, 1360-1369.	4.2	29
47	Application of supervised descent method to transient electromagnetic data inversion. Geophysics, 2019, 84, E225-E237.	2.6	28
48	A W-Band High-Aperture-Efficiency Multipolarized Monopulse Cassegrain Antenna Fed by Phased Microstrip Patch Quad. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1609-1613.	4.0	27
49	Low-Frequency Data Prediction With Iterative Learning for Highly Nonlinear Inverse Scattering Problems. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4366-4376.	4.6	27
50	Generalised correction to the Friis formula: quick determination of the coupling in the Fresnel region. IET Microwaves, Antennas and Propagation, 2013, 7, 1092-1101.	1.4	23
51	Design of a Low-Cost Single-Layer X/Ku Dual-Band Metal-Only Reflectarray Antenna. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2106-2109.	4.0	23
52	A Novel 1-Bit Reconfigurable Transmitarray Antenna Using a C-Shaped Probe-Fed Patch Element With Broadened Bandwidth and Enhanced Efficiency. IEEE Access, 2020, 8, 120124-120133.	4.2	22
53	Physics Embedded Deep Neural Network for Solving Volume Integral Equation: 2-D Case. IEEE Transactions on Antennas and Propagation, 2022, 70, 6135-6147.	5.1	22
54	A Low-Profile Quad-Beam Transmitarray. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1340-1344.	4.0	21

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55	Physics Embedded Deep Neural Network for Solving Full-Wave Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2022, 70, 6148-6159.	5.1	21
56	A Low-Profile Compact Dual-Band L-Shape Monopole Antenna for Microwave Thorax Monitoring. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 448-452.	4.0	20
57	Single-Layer Reflectarray Antenna With Independent Dual-CP Beam Control. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 532-536.	4.0	20
58	Quasi-Periodic Array Modeling Using Reduced Basis Method. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 825-828.	4.0	19
59	A novel 2-bit reconfigurable reflectarray element for both linear and circular polarizations. , 2017, , .		19
60	Design Method for Low-Profile, Harmonic-Suppressed Filter-Antennas Using Miniaturized-Element Frequency Selective Surfaces. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 427-431.	4.0	19
61	Three-Dimensional Joint Inversion of EM and Acoustic Data Based on Contrast Source Inversion. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2020, 5, 28-36.	2.2	18
62	Design, Analysis, and Experiment on High-Performance Orbital Angular Momentum Beam Based on 1-Bit Programmable Metasurface. IEEE Access, 2021, 9, 18585-18596.	4.2	18
63	Solving Combined Field Integral Equation With Deep Neural Network for 2-D Conducting Object. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 538-542.	4.0	16
64	A Dual-Band Orthogonally Polarized Contour Beam Transmitarray Design. IEEE Transactions on Antennas and Propagation, 2021, 69, 4538-4545.	5.1	15
65	Analysis of Reflectarray Antenna Elements Under Arbitrary Incident Angles and Polarizations Using Generalized Boundary Conditions. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2208-2212.	4.0	13
66	Study on a Recurrent Convolutional Neural Network Based FDTD Method. , 2019, , .		13
67	Real-Time Mode Switching and Beam Scanning of High-Gain OAM Waves Using a 1-Bit Reconfigurable Reflectarray Antenna. Electronics (Switzerland), 2020, 9, 2181.	3.1	13
68	Characterization of Orbital Angular Momentum Applying Single-Sensor Compressive Imaging Based on a Microwave Spatial Wave Modulator. IEEE Transactions on Antennas and Propagation, 2021, 69, 6870-6880.	5.1	13
69	Design of a 2-bit reconfigurable reflectarray element using two MEMS switches. , 2015, , .		12
70	A Feasibility Study of 2-D Microwave Thorax Imaging Based on the Supervised Descent Method. Electronics (Switzerland), 2021, 10, 352.	3.1	12
71	Hybrid Polarization-Phase Tuning Methodology for Reflectarray Antennas. IEEE Transactions on Antennas and Propagation, 2021, 69, 5534-5545.	5.1	11
72	Design and Measurement of a *Ku*-Band Pattern-Reconfigurable Array Antenna Using 16 O-Slot Patch Elements With p-i-n Diodes. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2373-2377.	4.0	11

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73	Analysis and optimization of the scanning performance of 1-bit reconfigurable reflectarrays. , 2014, , .		10
74	A feasibility study of microwave respiration monitoring. , 2017, , .		10
75	Application of Multitask Learning for 2-D Modeling of Magnetotelluric Surveys: TE Case. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	6.3	9
76	A Low-Profile Wide-Angle Reconfigurable Transmitarray Antenna Using Phase Transforming Lens With Virtual Focal Source. IEEE Transactions on Antennas and Propagation, 2022, 70, 8626-8631.	5.1	9
77	Terahertz reflectarray antennas: An overview of the state-of-the-art technology. , 2014, , .		8
78	Quasi-Periodic Array Modeling Using Reduced Basis From Elemental Array. IEEE Journal on Multiscale and Multiphysics Computational Techniques, 2017, 2, 202-208.	2.2	8
79	A Passive Temperature-Sensing Antenna Based on a Bimetal Strip Coil. Sensors, 2017, 17, 665.	3.8	8
80	Feasibility study of acoustic imaging for human thorax using an acoustic contrast source inversion algorithm. Journal of the Acoustical Society of America, 2018, 144, 2782-2792.	1.1	8
81	Synthesis of Reflectarray Based on Deep Learning Technique. , 2018, , .		8
82	Fast Nonuniform Metasurface Analysis in FDTD Using Surface Susceptibility Model. IEEE Transactions on Antennas and Propagation, 2020, 68, 7121-7130.	5.1	8
83	Design of a Ku-band triple-layer perforated dielectric transmitarray antenna. , 2016, , .		7
84	A Compact Dual-Band Folded-Cavity Antenna for Microwave Biomedical Imaging Applications. , 2019, , .		7
85	Electromagnetic Modeling Using an FDTD-Equivalent Recurrent Convolution Neural Network: Accurate computing on a deep learning framework. IEEE Antennas and Propagation Magazine, 2023, 65, 93-102.	1.4	7
86	Design of a circularly polarized reconfigurable reflectarray using micromotors. , 2015, , .		6
87	Design of a Ku/Ka quad-band reflectarray antenna for satellite communications. , 2016, , .		6
88	A Distributed Power-Amplifying Reflectarray Antenna for EIRP Boost Applications. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2742-2745.	4.0	6
89	Design of Artificial Matching Layers With Arbitrary Permittivity Using a Metasurface. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1445-1448.	4.0	6
90	Design Method for Modulated Metasurface Antennas Composed of Anisotropic Elements Based on Generalized Boundary Conditions. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1848-1852.	4.0	6

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91	Supervised Descent Method for Electrical Impedance Tomography. , 2019, , .		6
92	A Microwave Thorax Imaging System Based on Symmetrical Dipole Antenna and One-Step Supervised Descent Method. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 5000-5007.	4.6	6
93	Design and comparison of four different reflectarray antennas towards THz applications. , 2014, , .		5
94	Design of a dual-frequency broadband reflectarray using triple-resonance elements. , 2015, , .		5
95	Reflectarray element analysis based on generalized sheet transition conditions. , 2017, , .		5
96	Mode analysis of 1-Bit reflectarray element using p-i-n diode at W-band. , 2017, , .		5
97	A high gain broadband transmitarray antenna using dualâ€resonant Eâ€shaped element. Microwave and Optical Technology Letters, 2018, 60, 1531-1536.	1.4	5
98	Analysis of Nonlinear Metallic Metasurface Elements Using Maxwell-Hydrodynamic Model With Time-Domain Perturbation Method. IEEE Transactions on Antennas and Propagation, 2020, 68, 2213-2223.	5.1	5
99	A Fast Modeling Algorithm for Quasi-Periodic Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 584-587.	5.1	5
100	Design of an L-band reflectarray antenna for BeiDou satellite applications. , 2014, , .		4
101	A high-efficiency single-layer dual-band circularly polarized reflectarray antenna. , 2014, , .		4
102	Radiation performances of conformal dielectric reflectarray antennas at sub-millimeter waves. , 2016, , .		4
103	Study on a 3D Possion's Equation Slover Based on Deep Learning Technique. , 2018, , .		4
104	Dual-band dual-polarized transmitarray for satellite communications. , 2018, , .		4
105	Design and Optimization of a Mechanically Reconfigurable Reflectarray Antenna with Pixel Patch Elements Using Genetic Algorithm. , 2019, , .		4
106	Application of Stochastic Gradient Descent Technique for Method of Moments. , 2020, , .		4
107	Phase error analysis for reflectarray antennas based on study of quasi-periodic effect. , 2017, , .		4
108	Image Human Thorax Using Ultrasound Traveltime Tomography with Supervised Descent Method. Applied Sciences (Switzerland), 2022, 12, 6763.	2.5	4

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109	A modified parabolic-cylindrical reflectarray antenna for wide beam scanning capablility. , 2014, , .		3
110	E-shaped element design for linearly polarized transmitarray antennas. , 2014, , .		3
111	Design of a multi-polarization double-layer transmitarray element using cross dipoles with vias. , 2016, , .		3
112	Design of an amplifying reflectarray antenna with improved isolation performance. , 2016, , .		3
113	Dual-frequency reconfigurable patch antenna with thermal switches for temperature monitoring. , 2016, , .		3
114	Design of a single-layer dual-band metal-only reflectarray. , 2017, , .		3
115	Application of multiplicative regularization for electrical impedance tomography. , 2017, , .		3
116	Design of a dual-band orthogonally polarized transmitarray using 3-dipole elements. , 2017, , .		3
117	Characterization of metascreens based on babinet's principle and generalized sheet transition conditions for metafilms. , 2017, , .		3
118	Design of a 1-bit Reconfigurable Transmitarray Element Using an Equivalent Magnetic Dipole. , 2018, , .		3
119	Supervised Descent Method for 2D Magnetotelluric Inversion using Adam Optimization. , 2019, , .		3
120	Study on 3-D Acoustic Imaging for Human Thorax Based on Contrast Source Inversion. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1533-1543.	3.0	3
121	Investigation of Adam for Low-Frequency Electromagnetic problems. , 2020, , .		3
122	A two-layer transmitarray antenna. , 2014, , .		2
123	Design of reflectarray element integrated with solar cells. , 2014, , .		2
124	Design of an imaging chamber for biomedical applications using bowtie antennas. , 2015, , .		2
125	2D quasi-periodic array modeling using reduced basis method. , 2016, , .		2
126	Design of a reconfigurable reflectarray element with an internal slotted patch of tunable height. , 2016, , .		2

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127	Design of a Ku-band 1-bit reconfigurable transmitarray with 16Ã—16 slot coupled elements. , 2017, , .		2
128	A wideband reflectarray design using novel phasing rings. , 2017, , .		2
129	Characterization of Multiple-Layer Anisotropic Metasurfaces Based on Generalized Boundary Conditions. , 2018, , .		2
130	Study of a low-profile transmitarray element using 3 non-identical layers. , 2018, , .		2
131	A 1-bit Reconfigurable Reflectarray Element with Independent Dual-band Phase Controlling Capability. , 2019, , .		2
132	Supervised Descent Method for Full-wave Microwave Imaging. , 2019, , .		2
133	Joint Inversion of Audio-Magnetotelluric and Seismic Travel Time Data Using Attribute Fusion Based on Deep Learning. , 2021, , .		2
134	Design and Analysis of Vortex Electromagnetic Wave Based on 1-Bit Coding Metasurface. , 2020, , .		2
135	Enhanced Born Approximation for Wave Equations. , 2021, , .		2
136	A New Approach for Solving Inverse Scattering Problems Based on Physics-informed Supervised Residual Learning. , 2022, , .		2
137	Design of a Ku-band reflectarray antenna consisting of only metallic surfaces. , 2014, , .		1
138	Design of a single-layer dual-band reflectarray using Phoenix elements. , 2015, , .		1
139	Experimental study of a 1-bit 10&#x00D7;10 reconfigurable reflectarray antenna. , 2015, , .		1
140	Design of a beam-scanning reflectarray antenna with an offset mechanically rotational horn. , 2015, , .		1
141	A 1-bit double-layer square slot element for reconfigurable transmitarray design. , 2016, , .		1
142	Design of A RFID patch antenna integrated with mercury switches for wireless tilt sensing. , 2017, , .		1
143	Electrical impedance tomography with multiplicative regularization. , 2017, , .		1
144	FDTD Solver with Time-Domain Perturbation Method for Simulating An All-Optical Switch Realized by Nonlinear Metasurface. , 2018, , .		1

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145	A Multi-bit Reconfigurable Transmitarray Design Approach Using Cascaded Spatial Phase Shifters. , 2018, , .		1
146	Reconfigurable Reflectarrays and Transmitarrays: From Antenna Designs to System Applications. , 2018, , .		1
147	Reconfigurable sensing antenna for mechanical rotation monitoring. , 2018, , .		1
148	Application of Supervised Descent Method to Parametric Level-set Approach. , 2019, , .		1
149	Review of W-band Reconfigurable Reflectarray and Transmitarray Antennas at Tsinghua University. , 2020, , .		1
150	Physics Embedded Iterative Neural Network for Solving Integral Equations. , 2021, , .		1
151	A Preliminary Experiment for Microwave Thorax Imaging Based on One-Step Gauss Newton Method. , 2021, , .		1
152	A Preliminary Experiment Based on One-step Measurement-trained Supervised Descent Method for Microwave Thorax Imaging. , 2021, , .		1
153	Modeling of Multiscale Wave Interactions Based on an Iterative Scheme of MoM-PO-EPA Algorithm. Electronics (Switzerland), 2022, 11, 990.	3.1	1
154	Study on the Degrees of Freedom of Scattered Fields in Nonlinear Inverse Scattering Problems. , 2021, , .		1
155	Characteristic Model and Efficient FDTD-SPM Algorithm for Fishnet Metasurfaces Analysis. IEEE Transactions on Antennas and Propagation, 2022, , 1-1.	5.1	1
156	Study on projection error of equivalence principle algorithm. , 2015, , .		0
157	A study of the specular reflection effect in sub-reflectarray designs. , 2016, , .		0
158	Numerical study on the field projection error in the equivalence principle algorithm. , 2016, , .		0
159	Application of the reduced basis method to ID quasi-periodic array modeling. , 2016, , .		0
160	A microwave imaging chamber using bowtie antennas for biomedical applications. , 2016, , .		0
161	Quasi-periodic array modeling using reduced basis from elemental array. , 2017, , .		0
162	A reflectarray element design with both amplitude and phase control. , 2017, , .		0

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163	Modeling and analysis of quasi-periodic arrays. , 2017, , .		0
164	Application of the multiplicative regularization scheme to electrical impedance tomography. , 2017, , .		0
165	An X-band Reconfigurable Reflectarray Antenna with Steerable Monopulse Patterns. , 2018, , .		0
166	Three-Dimensional Electromagnetic Modeling for Underwater Targets and Environment. , 2018, , .		0
167	The Application of Barycentric Subdivision Method for Numerical Integration in Method of Moments. , 2018, , .		0
168	Study on the Effect of Ribs on Electrical Impedance Tomography for Thorax Imaging. , 2018, , .		0
169	A New Electrode Configuration Scheme in Electrical Impedance Tomography for Thorax Imaging. , 2018, , .		0
170	Quasi-Periodic Array Modeling Using Reduced Basis with H2-Matrix Algorithm. , 2018, , .		0
171	Extraction of Periodicity for Quasi-Periodic Electromagnetic Surfaces Using Equivalence Principle Algorithm. , 2018, , .		0
172	Flat beam optimization of 1-bit Reflectarray by means of Social Network Optimization. , 2018, , .		0
173	Feasibility Study of Acoustic Imaging for Human Thorax Using Contrast Source Inversion. , 2018, , .		0
174	Study on a Joint Inversion Algorithm for Acoustic and Electromagnetic Data Based on Contrast Source Inversion Method and Cross-gradient Constraint. , 2019, , .		0
175	Characterization of Two-Dimensional Surfaces Based on Generalized Boundary Conditions and Surface Susceptibilities. , 2019, , .		0
176	Three-dimensional Joint Inversion of Acoustic and Electromagnetic Data Based on Contrast Source Inversion. , 2019, , .		0
177	Surface Electromagnetics: Historic Development and Antenna Applications. , 2019, , .		0
178	Design of Microwave Imaging System Based on Reconfigurable Transmitarray with Variable Focuses. , 2020, , .		0
179	A Low-Profile Transmissive Metasurface for Transformation of Plane Wave to Contour Beam Pattern Using 4-Arm Spiral Element. IEEE Access, 2021, 9, 39792-39797.	4.2	0
180	Joint Inversion of Acoustic and Electromagnetic Data for Imaging Human Thorax. , 2018, , .		0

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181	Study on Low-Frequency Data Learning for Inverse Scattering Problems with High Nonlinearity. , 2021, , .		0
182	Three-Dimensional Modeling for Ocean Electromagnetic Environment. , 2020, , .		0
183	Multiple OAM Beams Design Using the Pattern Product Method. , 2020, , .		0
184	3D Model-based Inversion with Limited Microwave Data Using Supervised Descent Method. , 2020, , .		0
185	Fast Full-wave Microwave Imaging With Physics Embedded Deep Neural Network. , 2021, , .		0
186	Low-Frequency Data Learning for Solving Highly Nonlinear Inverse Scattering Problems. , 2022, , .		0
187	Application of Electrical Impedance Tomography for Monitoring Tissue Water Content of the Thigh. , 2022, , .		0
188	A Three-dimensional Phantom for Evaluating the Performance of Electrical Impedance Tomography System. , 2022, , .		0
189	A Study on the Effect of Thorax Dilation in Microwave Thorax Imaging. , 2022, , .		0