

# Kuiwen Xu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Cascaded Complex U-Net Model to Solve Inverse Scattering Problems With Phaseless-Data in the Complex Domain. IEEE Transactions on Antennas and Propagation, 2022, 70, 6160-6170.	5.1	5
2	Fast Full-Wave Electromagnetic Inverse Scattering Based on Scalable Cascaded Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	12
3	Electric Flux Density Learning Method for Solving 3-D Electromagnetic Scattering Problems. IEEE Transactions on Antennas and Propagation, 2022, 70, 5144-5155.	5.1	4
4	Learning-based inversion method for solving electromagnetic inverse scattering with mixed boundary conditions. IEEE Transactions on Antennas and Propagation, 2022, , 1-1.	5.1	6
5	Wideband Microwave Sensor for Downhole Water-Cut Monitoring. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	6.3	1
6	Multiplicatively Regularized Iterative Updated Background Inversion Method for Inverse Scattering Problems. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 999-1003.	3.1	2
7	An Improved Subspace-Regularized DBIM-MLGFIM Method for Three-Dimensional Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2021, 69, 2798-2809.	5.1	9
8	Backward-to-Forward Wide-Angle Fast Beam-Scanning Leaky-Wave Antenna With Consistent Gain. IEEE Transactions on Antennas and Propagation, 2021, 69, 2987-2992.	5.1	33
9	Learning-Based Fast Electromagnetic Scattering Solver Through Generative Adversarial Network. IEEE Transactions on Antennas and Propagation, 2021, 69, 2194-2208.	5.1	51
10	Deep Learning-Based Inverse Scattering With Structural Similarity Loss Functions. IEEE Sensors Journal, 2021, 21, 4900-4907.	4.7	30
11	Electromagnetic Inverse Scattering With Perceptual Generative Adversarial Networks. IEEE Transactions on Computational Imaging, 2021, 7, 689-699.	4.4	17
12	<scp>High-precision dielectric sensor system based on balanced CSRR&#x2013;SIW resonators</scp>. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22696.	1.2	1
13	Reconfigurable meta-radiator based on flexible mechanically controlled current distribution in three-dimensional space. Optics Letters, 2021, 46, 3633.	3.3	0
14	A Hybrid Input Scheme for Deep-Learning Based Quantitative Microwave Imaging. , 2021, , .		0
15	Nanolasers with Feedback as Low-Coherence Illumination Sources for Speckle-Free Imaging: A Numerical Analysis of the Superthermal Emission Regime. Nanomaterials, 2021, 11, 3325.	4.1	7
16	A Multiresolution Contraction Integral Equation Method for Solving Highly Nonlinear Inverse Scattering Problems. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1234-1247.	4.6	24
17	1-D Frequency-Diverse Single-Shot Guided-Wave Imaging Using Surface-Wave Goubau Line. IEEE Transactions on Antennas and Propagation, 2020, 68, 3194-3206.	5.1	10
18	Experimental Investigation on Subwavelength Imaging With Temporal&#x201c;Spatial Random Illuminations. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 18-20.	4.7	1

#	ARTICLE	IF	CITATIONS
19	A CSRR-Loaded Planar Sensor for Simultaneously Measuring Permittivity and Permeability. IEEE Microwave and Wireless Components Letters, 2020, 30, 219-221.	3.2	26
20	A Portable Microwave Interferometry Sensor for Permittivity Detection Based on CCMRC. IEEE Access, 2020, 8, 140323-140332.	4.2	4
21	Learning-Based Quantitative Microwave Imaging With a Hybrid Input Scheme. IEEE Sensors Journal, 2020, 20, 15007-15013.	4.7	20
22	Solving Phaseless Highly Nonlinear Inverse Scattering Problems With Contraction Integral Equation for Inversion. IEEE Transactions on Computational Imaging, 2020, 6, 1106-1116.	4.4	8
23	An Inhomogeneous Background Imaging Method Based on Generative Adversarial Network. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 4684-4693.	4.6	34
24	Wavelet-Based Subspace Regularization for Solving Highly Nonlinear Inverse Scattering Problems with Contraction Integral Equation. Electronics (Switzerland), 2020, 9, 1760.	3.1	1
25	Fourier Bases-Expansion Contraction Integral Equation for Inversion Highly Nonlinear Inverse Scattering Problem. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2206-2214.	4.6	7
26	Far-field cancellation of cross-polarisation based on mirroring subarrays of densely arranged PDM apertures. IET Microwaves, Antennas and Propagation, 2020, 14, 314-319.	1.4	1
27	Microwave Planar Sensors for Fully Characterizing Magneto-Dielectric Materials. IEEE Access, 2020, 8, 41985-41999.	4.2	19
28	Static Hand Gesture Recognition With Electromagnetic Scattered Field via Complex Attention Convolutional Neural Network. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 705-709.	4.0	13
29	Deep Learning-Based Inversion Methods for Solving Inverse Scattering Problems With Phaseless Data. IEEE Transactions on Antennas and Propagation, 2020, 68, 7457-7470.	5.1	72
30	Induction Logging Through Casing by Detecting Lateral Waves: A Numerical Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2937-2946.	6.3	3
31	Application of Subspace-Based Distorted-Born Iteration Method in Imaging Biaxial Anisotropic Scatterer. IEEE Transactions on Computational Imaging, 2020, 6, 1486-1492.	4.4	8
32	A Novel Biomedical Imaging with Inhomogeneous Background using Levenberg-Marquardt Algorithm. , 2019, , .		1
33	Compact wideband circularly polarized horn antenna with tapered slot-coupled feeding for Ku-band applications. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21898.	1.2	0
34	The Gas Leak Detection Based on a Wireless Monitoring System. IEEE Transactions on Industrial Informatics, 2019, 15, 6240-6251.	11.3	35
35	A Dual-band Outphasing Power Amplifier. , 2019, , .		6
36	Dual-band and enhanced-resolution MIMO antenna with L-shaped meta-ring extended ground stubs for 5G mobile handsets. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21776.	1.2	6

#	ARTICLE	IF	CITATIONS
37	Contraction Integral Equation for Three-Dimensional Electromagnetic Inverse Scattering Problems. Journal of Imaging, 2019, 5, 27.	3.0	11
38	Towards real-time through-obstacle imaging based on compressed sensing for sparse objects. IET Microwaves, Antennas and Propagation, 2019, 13, 2290-2296.	1.4	0
39	An Ultracompact Butterworth Low-Pass Filter Based on Vertical Spiral TSV Inductor. , 2019, , .		2
40	A Fast Proximal Gradient Algorithm to Solve Electromagnetic Inverse Scattering Problems. , 2019, , .		0
41	Wide-Angle Beam Steering Based on an Active Conformal Metasurface Lens. IEEE Access, 2019, 7, 185264-185272.	4.2	31
42	Fast Microwave Through Wall Imaging Method With Inhomogeneous Background Based on Levenberg-Marquardt Algorithm. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1138-1147.	4.6	28
43	A Frequency Synthesizer Based Microwave Permittivity Sensor Using CMRC Structure. IEEE Access, 2018, 6, 8556-8563.	4.2	26
44	The WSN Monitoring System for Large Outdoor Advertising Boards Based on ZigBee and MEMS Sensor. IEEE Sensors Journal, 2018, 18, 1314-1323.	4.7	21
45	A Hybrid Regularization Technique for Solving Highly Nonlinear Inverse Scattering Problems. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 11-21.	4.6	48
46	A Wideband And High-Isolation Mimo Antenna With Hybrid Magnetic-Electric Coupling Loop. , 2018, , .		0
47	A Novel Microwave Imaging Algorithm for Solving the Inverse Scattering Problems with Inhomogeneous Background. , 2018, , .		0
48	Design of a Broadband Microstrip Reflectarray Antenna Using Phoenix Element. , 2018, , .		6
49	A Microwave Sensor Based on Split Ring Resonators for Differential Measuring Permittivity. , 2018, , .		0
50	Wideband Radiation From an Offset-Fed Split Ring Resonator With Multi-Order Resonances. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2198-2202.	4.0	4
51	A Reactance Compensated Three-Device Doherty Power Amplifier for Bandwidth and Back-Off Range Extension. Wireless Communications and Mobile Computing, 2018, 2018, 1-10.	1.2	11
52	A Dielectric Constant Measurement System for Liquid Based on SIW Resonator. IEEE Access, 2018, 6, 41163-41172.	4.2	15
53	Novel Microwave Sensors Based on Split Ring Resonators for Measuring Permittivity. IEEE Access, 2018, 6, 26111-26120.	4.2	32
54	Printed multi-band compound meta-loop antenna with hybrid-coupled SRRs. IET Microwaves, Antennas and Propagation, 2018, 12, 1382-1388.	1.4	9

#	ARTICLE	IF	CITATIONS
55	A Fast Integral Equation-Based Method for Solving Electromagnetic Inverse Scattering Problems With Inhomogeneous Background. IEEE Transactions on Antennas and Propagation, 2018, 66, 4228-4239.	5.1	36
56	Design of a compact high-selectivity frequency selective surface using multilevel Green's function interpolation method. , 2017, , .		1
57	Uniplanar dual-band printed compound loop antenna for WLAN/WiMAX applications. Electronics Letters, 2017, 53, 1083-1084.	1.0	13
58	Multimode and Wideband Printed Loop Antenna Based on Degraded Split-Ring Resonators. IEEE Access, 2017, 5, 15561-15570.	4.2	16
59	Non-Foster immittance observed in the full-range frequency response. Microwave and Optical Technology Letters, 2017, 59, 2045-2048.	1.4	0
60	Theory and Implementation of Scattering-Dark-State Particles at Microwave Frequencies. IEEE Transactions on Antennas and Propagation, 2017, 65, 7119-7128.	5.1	1
61	Wideband printed loop-dipole antenna with magnetic-electric coupling. , 2017, , .		0
62	A compact planar ultra-wideband handset antenna with L-shaped extended ground stubs. IEICE Electronics Express, 2017, 14, 20170680-20170680.	0.8	3
63	Microwave Imaging under Oblique Illumination. Sensors, 2016, 16, 1046.	3.8	5
64	Wideband Modeling and Characterization of Differential Through-Silicon Vias for 3-D ICs. IEEE Transactions on Electron Devices, 2016, 63, 1168-1175.	3.0	40
65	Multiplicative-Regularized FFT Twofold Subspace-Based Optimization Method for Inverse Scattering Problems. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 841-850.	6.3	42