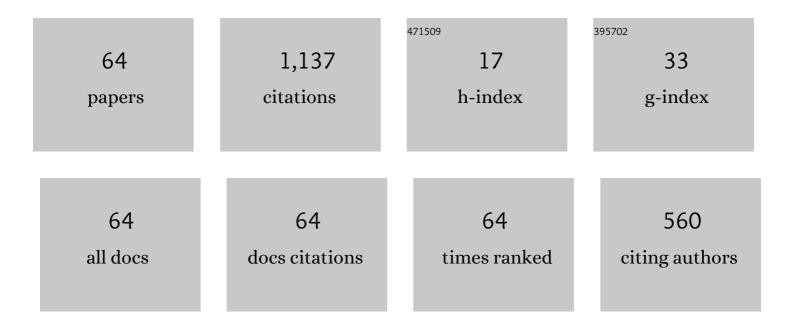
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List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Wideband Microwave Tomography System With a Novel Frequency Selection Procedure. IEEE Transactions on Biomedical Engineering, 2010, 57, 894-904.	4.2	121
2	Overview and Classification of Some Regularization Techniques for the Gauss-Newton Inversion Method Applied to Inverse Scattering Problems. IEEE Transactions on Antennas and Propagation, 2009, 57, 2658-2665.	5.1	100
3	Microwave Biomedical Imaging Using the Multiplicative Regularized GaussNewton Inversion. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 645-648.	4.0	98
4	Analysis of Incident Field Modeling and Incident/Scattered Field Calibration Techniques in Microwave Tomography. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 900-903.	4.0	85
5	Comparison of an Enhanced Distorted Born Iterative Method and the Multiplicative-Regularized Contrast Source Inversion method. IEEE Transactions on Antennas and Propagation, 2009, 57, 2341-2351.	5.1	82
6	On Super-Resolution With an Experimental Microwave Tomography System. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 393-396.	4.0	64
7	Enhancement of Gauss–Newton Inversion Method for Biological Tissue Imaging. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3424-3434.	4.6	64
8	A Multiplicative Regularized Gauss–Newton Inversion for Shape and Location Reconstruction. IEEE Transactions on Antennas and Propagation, 2011, 59, 4790-4802.	5.1	42
9	On the Use of Electromagnetic Inversion for Metasurface Design. IEEE Transactions on Antennas and Propagation, 2020, 68, 1812-1824.	5.1	40
10	A Prescaled Multiplicative Regularized Gauss-Newton Inversion. IEEE Transactions on Antennas and Propagation, 2011, 59, 2954-2963.	5.1	35
11	Multiplicatively Regularized Source Reconstruction Method for Phaseless Planar Near-Field Antenna Measurements. IEEE Transactions on Antennas and Propagation, 2017, 65, 2020-2031.	5.1	32
12	Electromagnetic Inversion With Local Power Conservation for Metasurface Design. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1291-1295.	4.0	30
13	Enhancement of the Krylov Subspace Regularization for Microwave Biomedical Imaging. IEEE Transactions on Medical Imaging, 2009, 28, 2015-2019.	8.9	27
14	Comparison of TE and TM Inversions in the Framework of the Gauss-Newton Method. IEEE Transactions on Antennas and Propagation, 2010, 58, 1336-1348.	5.1	26
15	A Novel Microwave Tomography System Using a Rotatable Conductive Enclosure. IEEE Transactions on Antennas and Propagation, 2011, 59, 1597-1605.	5.1	22
16	The University of Manitoba Microwave Imaging Repository: A Two-Dimensional Microwave Scattering Database for Testing Inversion and Calibration Algorithms [Measurements Corner]. IEEE Antennas and Propagation Magazine, 2011, 53, 126-133.	1.4	21
17	Microwave tomography techniques and algorithms: A review. , 2012, , .		21
18	A Controlled Experiment on Oil Release Beneath Thin Sea Ice and Its Electromagnetic Detection. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4406-4419.	6.3	18

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#	Article	IF	CITATIONS
19	An Electromagnetic Detection Case Study on Crude Oil Injection in a Young Sea Ice Environment. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4465-4475.	6.3	17
20	Using the Source Reconstruction Method to Model Incident Fields in Microwave Tomography. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 46-49.	4.0	12
21	ADAPTING THE NORMALIZED CUMULATIVE PERIODOGRAM PARAMETER-CHOICE METHOD TO THE TIKHONOV REGULARIZATION OF 2-D/TM ELECTROMAGNETIC INVERSE SCATTERING USING BORN ITERATIVE METHOD. Progress in Electromagnetics Research M, 2008, 1, 111-138.	0.9	11
22	Cascaded Metasurface Design Using Electromagnetic Inversion With Gradient-Based Optimization. IEEE Transactions on Antennas and Propagation, 2022, 70, 2033-2045.	5.1	11
23	A Multiprobe-Per-Collector Modulated Scatterer Technique for Microwave Tomography. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1445-1448.	4.0	10
24	Nonlinear Inversion of Microwave Scattering Data for Snow-Covered Sea-Ice Dielectric Profile Reconstruction. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 209-213.	3.1	10
25	A Mathematical Framework to Analyze the Achievable Resolution From Microwave Tomography. IEEE Transactions on Antennas and Propagation, 2016, 64, 1484-1489.	5.1	10
26	Landfast First-Year Snow-Covered Sea Ice Reconstruction via Electromagnetic Inversion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 2414-2428.	4.9	10
27	On the Use of Electromagnetic Inversion for Near-Field Antenna Measurements: A Review. , 2018, , .		10
28	Incorporating Spatial Priors in Microwave Imaging via Multiplicative Regularization. IEEE Transactions on Antennas and Propagation, 2020, 68, 1107-1118.	5.1	10
29	THE EFFECT OF ANTENNA INCIDENT FIELD DISTRIBUTION ON MICROWAVE TOMOGRAPHY RECONSTRUCTION. Progress in Electromagnetics Research, 2014, 145, 153-161.	4.4	9
30	Inversion-Based Sensitivity Analysis of Snow-Covered Sea Ice Electromagnetic Profiles. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3643-3655.	4.9	8
31	Phaseless Gauss-Newton Inversion for Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2021, 69, 443-456.	5.1	8
32	On the Use of Focused Incident Near-Field Beams in Microwave Imaging. Sensors, 2018, 18, 3127.	3.8	7
33	Electromagnetic Inversion for Noninvasive Specific Absorption Rate Characterization. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 254-259.	3.4	6
34	On the Use of Absorbing Metasurfaces in Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2021, 69, 9026-9031.	5.1	6
35	On the Formulation and Implementation of the Love's Condition Constraint for the Source Reconstruction Method. IEEE Transactions on Antennas and Propagation, 2022, 70, 3613-3627.	5.1	6

Biomedical microwave inversion in conducting cylinders of arbitrary shapes. , 2009, , .

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#	Article	IF	CITATIONS
37	Electromagnetic inversion for biomedical imaging, antenna characterization, and sea ice remote sensing applications. , 2016, , .		5
38	A Multiplicative Regularizer Augmented With Spatial Priors for Microwave Imaging. IEEE Transactions on Antennas and Propagation, 2021, 69, 606-611.	5.1	5
39	Gradient-Based Electromagnetic Inversion for Metasurface Design Using Circuit Models. IEEE Transactions on Antennas and Propagation, 2022, 70, 2046-2058.	5.1	4
40	On Microwave Breast Imaging with Ultrasound Spatial Priors. , 2020, , .		4
41	An Integral Equation Approach Towards the Design of Compact Metasurface Pairs. , 2022, , .		4
42	Toward an End-to-End Metasurface Design Procedure for Power Pattern Synthesis. , 2021, , .		3
43	On the Importance of the Love's Condition for Inverse Equivalent-Source Metasurface Design. , 2021, , .		3
44	Use of Wirtinger calculus in Gauss-Newton inversion of microwave tomography data. , 2014, , .		2
45	Evaluation of an Inversion Algorithm for Noninvasive Specific Absorption Rate Applications. , 2019, , .		2
46	An Encoder-Only Transformer to Generate Power Patterns from Far-Field Performance Criteria. , 2022, , .		2
47	Evaluation of a microwave tomography system for animal tissue imaging. , 2012, , .		1
48	Enhancement of near-field probing in a microwave tomography system. , 2012, , .		1
49	Normalized radar cross section analysis of oil-contaminated young Sea ice. , 2016, , .		1
50	A Capstone Design Project on the Development of a Prototype Near-Field Antenna Measurement System [Education Corner]. IEEE Antennas and Propagation Magazine, 2017, 59, 118-127.	1.4	1
51	An experimental study of microwave remote sensing of oil-contaminated young sea ice. , 2017, , .		1
52	A Phaseless Gauss-Newton Inversion Algorithm for Imaging and Design. , 2020, , .		1
53	A Combined Inverse Source and Scattering Technique for Dielectric Profile Design to Tailor Electromagnetic Fields. IEEE Transactions on Antennas and Propagation, 2022, 70, 2149-2160.	5.1	1

54 On Microwave Imaging with Absorbing Metasurface Enclosure. , 2020, , .

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#	Article	IF	CITATIONS
55	On the Use of Reconfigurable Space-Time Metasurface Enclosures for Microwave Imaging. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 2196-2200.	4.0	1
56	Use of synthesized fields in microwave tomography inversion. , 2014, , .		0
57	Multiplicatively regularized source reconstruction method for phaseless near-field antenna measurements. , 2015, , .		0
58	On the achievable resolution from microwave tomography. , 2015, , .		0
59	Balanced inversion of simulated bistatic radar cross-section data for remote sensing of snow-covered sea ice. Remote Sensing Letters, 2015, 6, 399-408.	1.4	0
60	A pendulum-based planar near-field antenna measurement system. , 2016, , .		0
61	Remote Sensing of Oil Spills in Freezing Environments at the University of Manitoba Sea-ice Environmental Research Facility. , 2018, , .		0
62	Phaseless Electromagnetic Inversion for Imaging, Characterization, and Design. , 2021, , .		0
63	On the Numerical Implementation of the Multiplicative Regularization in Microwave Imaging. , 2020, , .		0
64	An Automated Inversion Algorithm for Noninvasive Specific Absorption Rate Characterization. , 2020, ,		0