

Lorenzo Crocco

List of Publications by Year in descending order

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214
papers

4,199
citations

81839

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55
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216
all docs

216
docs citations

216
times ranked

1563
citing authors

#	ARTICLE	IF	CITATIONS
1	A FEASIBILITY STUDY ON MICROWAVE IMAGING FOR BRAIN STROKE MONITORING. Progress in Electromagnetics Research B, 2012, 40, 305-324.	0.7	211
2	OnSimple Methodsfor Shape Reconstruction of Unknown Scatterers. IEEE Transactions on Antennas and Propagation, 2007, 55, 1431-1436.	3.1	142
3	Design and Numerical Characterization of a Low-Complexity Microwave Device for Brain Stroke Monitoring. IEEE Transactions on Antennas and Propagation, 2018, 66, 7328-7338.	3.1	101
4	New Tools and Series for Forward and Inverse Scattering Problems in Lossy Media. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 327-331.	1.4	98
5	Improved Sampling Methods for Shape Reconstruction of 3-D Buried Targets. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3265-3273.	2.7	97
6	Inverse scattering problems with multifrequency data: reconstruction capabilities and solution strategies. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 1749-1756.	2.7	94
7	ON QUANTITATIVE MICROWAVE TOMOGRAPHY OF FEMALE BREAST. Progress in Electromagnetics Research, 2009, 97, 75-93.	1.6	89
8	The Linear Sampling Method as a Way to Quantitative Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2012, 60, 1844-1853.	3.1	85
9	Subsurface inverse scattering problems: quantifying, qualifying, and achieving the available information. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 2527-2538.	2.7	81
10	Degree of nonlinearity and a new solution procedure in scalar two-dimensional inverse scattering problems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 1832.	0.8	78
11	GPR Response From Buried Pipes: Measurement on Field Site and Tomographic Reconstructions. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2639-2645.	2.7	74
12	A Prototype Microwave System for 3D Brain Stroke Imaging. Sensors, 2020, 20, 2607.	2.1	74
13	Differential Microwave Imaging for Brain Stroke Followup. International Journal of Antennas and Propagation, 2014, 2014, 1-11.	0.7	67
14	Thermal and Microwave Constrained Focusing for Patient-Specific Breast Cancer Hyperthermia: A Robustness Assessment. IEEE Transactions on Antennas and Propagation, 2014, 62, 814-821.	3.1	62
15	Dielectric characterization study of liquid-based materials for mimicking breast tissues. Microwave and Optical Technology Letters, 2011, 53, 1276-1280.	0.9	61
16	An Effective Procedure for MNP-Enhanced Breast Cancer Microwave Imaging. IEEE Transactions on Biomedical Engineering, 2014, 61, 1071-1079.	2.5	53
17	Inverse Scattering Via Virtual Experiments and Contrast Source Regularization. IEEE Transactions on Antennas and Propagation, 2015, 63, 1669-1677.	3.1	52
18	Wavelet-Based Regularization for Robust Microwave Imaging in Medical Applications. IEEE Transactions on Biomedical Engineering, 2015, 62, 1195-1202.	2.5	50

#	ARTICLE	IF	CITATIONS
19	OPTIMAL CONSTRAINED FIELD FOCUSING FOR HYPERTHERMIA CANCER THERAPY: A FEASIBILITY ASSESSMENT ON REALISTIC PHANTOMS. <i>Progress in Electromagnetics Research</i> , 2010, 102, 125-141.	1.6	49
20	Wavelet-Based Adaptive Multiresolution Inversion for Quantitative Microwave Imaging of Breast Tissues. <i>IEEE Transactions on Antennas and Propagation</i> , 2012, 60, 3717-3726.	3.1	49
21	Inverse scattering from phaseless measurements of the total field on a closed curve. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 622.	0.8	48
22	Microwave Imaging via Distorted Iterated Virtual Experiments. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 829-838.	3.1	48
23	On the Effect of Support Estimation and of a New Model in 2-D Inverse Scattering Problems. <i>IEEE Transactions on Antennas and Propagation</i> , 2007, 55, 1895-1899.	3.1	47
24	Noninvasive Inline Food Inspection via Microwave Imaging Technology: An Application Example in the Food Industry. <i>IEEE Antennas and Propagation Magazine</i> , 2020, 62, 18-32.	1.2	47
25	Testing inversion algorithms against experimental data: 3D targets. <i>Inverse Problems</i> , 2009, 25, 020201.	1.0	46
26	An Imaging Method for Concealed Targets. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 1301-1309.	2.7	46
27	Early-stage leaking pipes GPR monitoring via microwave tomographic inversion. <i>Journal of Applied Geophysics</i> , 2009, 67, 270-277.	0.9	46
28	Brick-Shaped Antenna Module for Microwave Brain Imaging Systems. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 2057-2061.	2.4	46
29	A Tomographic Approach for Helicopter-Borne Ground Penetrating Radar Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 378-382.	1.4	45
30	Inverse scattering with real data: detecting and imaging homogeneous dielectric objects. <i>Inverse Problems</i> , 2001, 17, 1573-1583.	1.0	44
31	BISTATIC TOMOGRAPHIC GPR IMAGING FOR INCIPENT PIPELINE LEAKAGE EVALUATION. <i>Progress in Electromagnetics Research</i> , 2010, 101, 307-321.	1.6	44
32	Inverse scattering from phaseless measurements of the total field on open lines. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2566.	0.8	43
33	Assessing a Microwave Imaging System for Brain Stroke Monitoring via High Fidelity Numerical Modelling. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2021, 5, 238-245.	2.3	43
34	Improving the reconstruction capabilities in inverse scattering problems by exploitation of close-proximity setups. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999, 16, 1788.	0.8	42
35	3D microwave imaging via preliminary support reconstruction: testing on the Fresnel 2008 database. <i>Inverse Problems</i> , 2009, 25, 024002.	1.0	42
36	On the Design of Phased Arrays for Medical Applications. <i>Proceedings of the IEEE</i> , 2016, 104, 633-648.	16.4	42

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37	Testing the contrast source extended Born inversion method against real data: the TM case. Inverse Problems, 2005, 21, S33-S50.	1.0	41
38	Phaseless imaging with experimental data: facts and challenges. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 271.	0.8	41
39	Monitoring Thermal Ablation via Microwave Tomography: An Ex Vivo Experimental Assessment. Diagnostics, 2018, 8, 81.	1.3	41
40	A method for quantitative imaging of electrical properties of human tissues from only amplitude electromagnetic data. Inverse Problems, 2019, 35, 025006.	1.0	39
41	On the Optimal Measurement Configuration for Magnetic Nanoparticles-Enhanced Breast Cancer Microwave Imaging. IEEE Transactions on Biomedical Engineering, 2015, 62, 407-414.	2.5	38
42	Experimental Framework for Magnetic Nanoparticles Enhanced Breast Cancer Microwave Imaging. IEEE Access, 2017, 5, 16332-16340.	2.6	38
43	Model-Based Quantitative Cross-Borehole GPR Imaging via Virtual Experiments. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4178-4185.	2.7	36
44	A METHOD FOR EFFECTIVE PERMITTIVITY AND CONDUCTIVITY MAPPING OF BIOLOGICAL SCENARIOS VIA SEGMENTED CONTRAST SOURCE INVERSION. Progress in Electromagnetics Research, 2019, 164, 1-15.	1.6	36
45	Three-Dimensional Field Intensity Shaping: The Scalar Case. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 360-363.	2.4	35
46	Microwave Imaging of Nonweak Targets via Compressive Sensing and Virtual Experiments. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1035-1038.	2.4	34
47	Design and Experimental Assessment of a 2D Microwave Imaging System for Brain Stroke Monitoring. International Journal of Antennas and Propagation, 2019, 2019, 1-12.	0.7	34
48	Non-Linear Inverse Scattering via Sparsity Regularized Contrast Source Inversion. IEEE Transactions on Computational Imaging, 2017, 3, 296-304.	2.6	33
49	3-D Field Intensity Shaping via Optimized Multi-Target Time Reversal. IEEE Transactions on Antennas and Propagation, 2018, 66, 4380-4385.	3.1	33
50	Millimeter-Waves Breast Cancer Imaging via Inverse Scattering Techniques. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 246-253.	2.3	33
51	ON THE FEASIBILITY OF THE LINEAR SAMPLING METHOD FOR 3D GPR SURVEYS. Progress in Electromagnetics Research, 2011, 118, 185-203.	1.6	32
52	An Improved Simple Method for Imaging the Shape of Complex Targets. IEEE Transactions on Antennas and Propagation, 2013, 61, 843-851.	3.1	32
53	A simple two-dimensional inversion technique for imaging homogeneous targets in stratified media. Radio Science, 2004, 39, n/a-n/a.	0.8	31
54	Physical Insight Unveils New Imaging Capabilities of Orthogonality Sampling Method. IEEE Transactions on Antennas and Propagation, 2020, 68, 4014-4021.	3.1	31

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55	Linear and Nonlinear Microwave Tomography Approaches for Subsurface Prospecting: Validation on Real Data. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 49-53.	2.4	30
56	The potential of constrained SAR focusing for hyperthermia treatment planning: analysis for the head & neck region. Physics in Medicine and Biology, 2019, 64, 015013.	1.6	30
57	A review on ground penetrating radar technology for the detection of buried or trapped victims. , 2014, , .		29
58	Experimental Validation of a Microwave System for Brain Stroke 3-D Imaging. Diagnostics, 2021, 11, 1232.	1.3	29
59	An Algebraic Solution Method for Nonlinear Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2015, 63, 601-610.	3.1	27
60	Faithful non-linear imaging from only-amplitude measurements of incident and total fields. Optics Express, 2007, 15, 3804.	1.7	26
61	On embedded microwave imaging systems: retrievable information and design guidelines. Inverse Problems, 2009, 25, 065001.	1.0	26
62	MNP Enhanced Microwave Breast Cancer Imaging: Measurement Constraints and Achievable Performances. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1630-1633.	2.4	26
63	A New Linear Distorted-Wave Inversion Method for Microwave Imaging via Virtual Experiments. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 2478-2488.	2.9	26
64	A Qualitative Inverse Scattering Method for Through-the-Wall Imaging. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 685-689.	1.4	25
65	Higher Order Sparse Microwave Imaging of PEC Scatterers. IEEE Transactions on Antennas and Propagation, 2016, 64, 988-997.	3.1	25
66	Predictive value of SAR based quality indicators for head and neck hyperthermia treatment quality. International Journal of Hyperthermia, 2019, 36, 455-464.	1.1	25
67	THE CONTRAST SOURCE-EXTENDED BORN MODEL FOR 2D SUBSURFACE SCATTERING PROBLEMS. Progress in Electromagnetics Research B, 2009, 17, 343-359.	0.7	24
68	On the Design of a Microwave Imaging System to Monitor Thermal Ablation of Liver Tumors. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 231-237.	2.3	24
69	All frequency domain distributed fiber-optic brillouin sensing. IEEE Sensors Journal, 2003, 3, 36-43.	2.4	23
70	Constrained power focusing of vector fields: an innovative globally optimal strategy. Journal of Electromagnetic Waves and Applications, 2015, 29, 1708-1719.	1.0	22
71	Multi-Frequency Constrained SAR Focusing for Patient Specific Hyperthermia Treatment. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2017, 1, 74-80.	2.3	22
72	Exploiting Microwave Imaging Methods for Real-Time Monitoring of Thermal Ablation. International Journal of Antennas and Propagation, 2017, 2017, 1-13.	0.7	22

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73	Optimization of the Working Conditions for Magnetic Nanoparticle-Enhanced Microwave Diagnostics of Breast Cancer. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1607-1616.	2.5	21
74	Exploiting sparsity and field conditioning in subsurface microwave imaging of nonweak buried targets. <i>Radio Science</i> , 2016, 51, 301-310.	0.8	20
75	A Novel Effective Model for Solving 3-D Nonlinear Inverse Scattering Problems in Lossy Scenarios. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2006, 3, 302-306.	1.4	19
76	Microwave Technology for Brain Imaging and Monitoring: Physical Foundations, Potential and Limitations. , 2018, , 7-35.		19
77	Synthesis of new variable dielectric profile antennas via inverse scattering techniques: a feasibility study. <i>IEEE Transactions on Antennas and Propagation</i> , 2005, 53, 1287-1297.	3.1	18
78	Effective Solution of 3-D Scattering Problems via Series Expansions: Applicability and a New Hybrid Scheme. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 639-648.	2.7	18
79	A new algorithm for the shape reconstruction of perfectly conducting objects. <i>Inverse Problems</i> , 2007, 23, 1087-1100.	1.0	17
80	Focusing Time-Harmonic Scalar Fields in Complex Scenarios: A Comparison. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2013, 12, 1029-1032.	2.4	16
81	Low-Cost Low-Power Acceleration of a Microwave Imaging Algorithm for Brain Stroke Monitoring. <i>Journal of Low Power Electronics and Applications</i> , 2018, 8, 43.	1.3	16
82	Selecting the Optimal Subset of Antennas in Hyperthermia Treatment Planning. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2019, 3, 240-246.	2.3	15
83	Influence of Magnetic Scaffold Loading Patterns on Their Hyperthermic Potential Against Bone Tumors. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 2029-2040.	2.5	15
84	Interpreting complex, three-dimensional, near-surface GPR surveys: an integrated modelling and inversion approach. <i>Near Surface Geophysics</i> , 2011, 9, 297-304.	0.6	14
85	Microwave tomography enhanced GPR surveys in Centaur's Domus, Regio VI of Pompeii, Italy. <i>Journal of Geophysics and Engineering</i> , 2012, 9, S92-S99.	0.7	14
86	Frequency-domain approach to distributed fiber-optic Brillouin sensing. <i>Optics Letters</i> , 2002, 27, 288.	1.7	13
87	AN ADAPTIVE METHOD TO FOCUSING IN AN UNKNOWN SCENARIO. <i>Progress in Electromagnetics Research</i> , 2012, 130, 563-579.	1.6	13
88	Assessing Detection Limits in Magnetic Nanoparticle Enhanced Microwave Imaging. <i>IEEE Access</i> , 2018, 6, 43192-43202.	2.6	13
89	Generalized scattering-matrix method for the analysis of two-dimensional photonic bandgap devices. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, A12.	0.8	12
90	Experimental Validation of a Simple System for Through-the-Wall Inverse Scattering. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 258-262.	1.4	12

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91	A Feasibility Study for Life Signs Monitoring via a Continuous-Wave Radar. International Journal of Antennas and Propagation, 2012, 2012, 1-5.	0.7	12
92	Design and Validation of a Multimode Multifrequency VHF/UHF Airborne Radar. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1260-1264.	1.4	12
93	Assessing the Capabilities of a New Linear Inversion Method for Quantitative Microwave Imaging. International Journal of Antennas and Propagation, 2015, 2015, 1-9.	0.7	12
94	GPR microwave tomography for diagnostic analysis of archaeological sites: the case of a highway construction in Pontecagnano (Southern Italy). Archaeological Prospection, 2009, 16, 203-217.	1.1	11
95	Quasi — Invisibility via inverse scattering techniques. , 2014, , .		11
96	Tomographic airborne ground penetrating radar imaging: Achievable spatial resolution and on-field assessment. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 92, 69-78.	4.9	11
97	High-Order Sparse Shape Imaging of PEC and Dielectric Targets Using TE Polarized Fields. IEEE Transactions on Antennas and Propagation, 2018, 66, 2035-2043.	3.1	11
98	Introduction to Special Issue on "Electromagnetic Technologies for Medical Diagnostics: Fundamental Issues, Clinical Applications and Perspectives" Diagnostics, 2019, 9, 19.	1.3	11
99	Electromagnetic Imaging and Sensing for Food Quality and Safety Assessment [Guest Editorial]. IEEE Antennas and Propagation Magazine, 2020, 62, 16-17.	1.2	11
100	An adaptive wavelet-based approach for non-destructive evaluation applications. , 0, , .		10
101	A New Strategy to Constrained Focusing in Unknown Scenarios. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1450-1453.	2.4	10
102	Focusing time harmonic scalar fields in non-homogenous lossy media: Inverse filter vs. constrained power focusing optimization. Applied Physics Letters, 2013, 103, 093702.	1.5	10
103	Towards a Microwave Imaging System for Continuous Monitoring of Liver Tumor Ablation: Design and In Silico Validation of an Experimental Setup. Diagnostics, 2021, 11, 866.	1.3	10
104	Higher Order Inhomogeneous Impedance Boundary Conditions for Perfectly Conducting Objects. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1291-1297.	2.7	9
105	Shape Reconstruction of Perfectly Conducting Targets From Single-Frequency Multiview Data. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 383-386.	1.4	9
106	THE FACTORIZATION METHOD FOR VIRTUAL EXPERIMENTS BASED QUANTITATIVE INVERSE SCATTERING. Progress in Electromagnetics Research, 2016, 157, 121-131.	1.6	9
107	Linear Sampling Method: Physical Interpretation and Guidelines for a Successful Application. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2008, 4, 291-295.	0.4	9
108	Advanced forward modeling and tomographic inversion for leaking water pipes monitoring. , 2007, , .		8

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109	Contrast Source Extended Born Inversion in Noncanonical Scenarios Via FEM Modeling. IEEE Transactions on Antennas and Propagation, 2014, 62, 4674-4685.	3.1	8
110	Advances in 3D electromagnetic focusing: Optimized time reversal and optimal constrained power focusing. Radio Science, 2017, 52, 166-175.	0.8	8
111	Deep Learning-Enhanced Qualitative Microwave Imaging: Rationale and Initial Assessment. , 2021, , .		8
112	A Compact Slot-Loaded Antipodal Vivaldi Antenna for a Microwave Imaging System to Monitor Liver Microwave Thermal Ablation. IEEE Open Journal of Antennas and Propagation, 2022, 3, 700-708.	2.5	8
113	Experimental Characterization of Spurious Signals in Magnetic Nanoparticles Enhanced Microwave Imaging of Cancer. Sensors, 2021, 21, 2820.	2.1	7
114	2D GPR imaging via Linear Sampling Method: A performance assessment tool. , 2011, , .		6
115	On the Role and Choice of Source Polarization in Time-Reversal Focusing of Vector Fields. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 214-217.	2.4	6
116	Microwave Imaging Device for In-Line Food Inspection. , 2020, , .		6
117	Antipodal Vivaldi Antenna with Ceramic Cone Lens for Biomedical Microwave Imaging Systems. , 2021, , .		6
118	Multiresolution techniques in microwave tomography and subsurface sensing. , 0, , .		5
119	2D inverse scattering: degree of nonlinearity, solution strategies, and polarization effects. , 2000, 4123, 185.		5
120	Improved scattering matrix method for the analysis of two-dimensional PBG devices. Microwave and Optical Technology Letters, 2006, 48, 2564-2570.	0.9	5
121	Imaging of 3D magnetic targets from multiview multistatic GPR data. , 2010, , .		5
122	Airborne ground penetrating radar imaging of buried targets: A tomographic approach. , 2011, , .		5
123	Assessment of inversion strategies for microwave imaging of weak magnetic scatterers embedded into a biological environment. , 2012, , .		5
124	An Effective Method for Borehole Imaging of Buried Tunnels. International Journal of Antennas and Propagation, 2012, 2012, 1-9.	0.7	5
125	Tomographic GPR imaging using a linear inversion algorithm informed by FDTD modelling: a numerical case study of buried utility pipes monitoring. Near Surface Geophysics, 2013, 11, 221-230.	0.6	5
126	Magnetic nanoparticle enhanced microwave imaging: Towards an experimental feasibility assessment. , 2014, , .		5

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127	A feasibility study for cerebrovascular diseases monitoring via microwave imaging. , 2017, , .		5
128	Microwave Imaging Technology for In-line Food Contamination Monitoring. , 2019, , .		5
129	Advances in Multi-Target FOCO for Hyperthermia Treatment Planning: A Robustness Assessment. , 2018, , .		5
130	<title>Tomographic approach for imaging targets embedded in a layered medium</title>. , 2002, , .		4
131	Foreword to the Special Issue on Ground Penetrating Radar: Modeling Tools, Imaging Methods and Systems Concepts. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2011, 4, 735-738.	2.3	4
132	Tomographic imaging of holographic GPR data for non-invasive structural assessment: the Musmeci bridge investigation. Nondestructive Testing and Evaluation, 2012, 27, 229-237.	1.1	4
133	Comparison study of two approaches for bioradar data processing. , 2013, , .		4
134	A Simple Quantitative Inversion Approach for Microwave Imaging in Embedded Systems. International Journal of Antennas and Propagation, 2015, 2015, 1-18.	0.7	4
135	A Simple Approach for Estimating the Effective Electric Parameters of 2-D Targets. IEEE Transactions on Antennas and Propagation, 2018, 66, 2026-2034.	3.1	4
136	A Simple Procedure to Design Virtual Experiments for Microwave Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2021, 69, 8652-8663.	3.1	4
137	Surface impedance modeling of PEC targets: application to shape reconstruction. Inverse Problems, 2009, 25, 115003.	1.0	3
138	Using FDTD modelling to inform the tomographic imaging of buried utility pipes via GPR investigation. , 2011, , .		3
139	Magnetic nanoparticles enhanced microwave imaging: A feasibility assessment. , 2012, , .		3
140	Conditioning inverse scattering problems by means of suitably designed synthetic experiments. , 2014, , .		3
141	SAR constrained focusing through multi-frequency array applicators. , 2017, , .		3
142	Biomedical imaging via wavelet-based regularization and distorted iterated virtual experiments. , 2017, , .		3
143	Estimation of the Effective Electrical Parameters in Two-Dimensional Transverse Electric Case. IEEE Transactions on Antennas and Propagation, 2020, 68, 468-481.	3.1	3
144	Potentialities of Inverse Scattering Techniques for Breast Cancer Imaging at Millimeter-Waves Frequencies. , 2020, , .		3

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145	A Portable Microwave Scanner for Brain Stroke Monitoring: Design, Implementation and Experimental Validation. , 2022, , .		3
146	Advances in microwave tomography: phaseless measurements and layered backgrounds. , 0, , .		2
147	Advances in inverse scattering arising from the physical meaning of the Linear Sampling Method. , 2012, , .		2
148	Radar for vital signs characterization: A comparison between two different frequency band systems. , 2013, , .		2
149	Exploiting compressive sensing in microwave tomography and inverse scattering. , 2014, , .		2
150	A finite element based hybrid source-type scheme for Microwave Imaging. , 2014, , .		2
151	Design of biomedical array applicators: An innovative constrained synthesis strategy to focusing vector fields. , 2015, , .		2
152	Microwave tomography in archaeology and cultural heritage applications: A review. , 2015, , .		2
153	Optimization of working conditions for magnetic nanoparticle enhanced ultra-wide band breast cancer detection. , 2016, , .		2
154	Microwave imaging via iterated virtual experiments. , 2016, , .		2
155	Arbitrary field intensity shaping via multi-target optimal constrained power focusing. , 2017, , .		2
156	Brain stroke monitoring using compressive sensing and higher order basis functions. , 2017, , .		2
157	Towards 3D field intensity shaping for biomedical applications. , 2017, , .		2
158	In-Line Monitoring of Food Contamination via Microwave Imaging. , 2018, , .		2
159	Head Phantoms for a Microwave Imaging System Dedicated to Cerebrovascular Disease Monitoring. , 2018, , .		2
160	Microwave Tomography for Food Contamination Monitoring. , 2021, , .		2
161	Broadband Electromagnetic Sensing for Food Quality Control: A Preliminary Experimental Study. , 2021, , .		2
162	Preliminary Investigations of Microwave Imaging Algorithms for Tissue Temperature Estimation During Hyperthermia Treatment. , 2021, , .		2

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163	Monitoring regional hyperthermia via microwave imaging: a feasibility study. , 2020, , .		2
164	A Three-Dimensional Microwave Sparse Imaging Approach Using Higher-Order Basis Functions. International Journal of Antennas and Propagation, 2022, 2022, 1-20.	0.7	2
165	A Deep Learning Architecture for Augmented Shape Reconstruction via Microwave Imaging. , 2022, , .		2
166	A Microwave Imaging System Prototype for Liver Ablation Monitoring: Design and Initial Experimental Validation. , 2022, , .		2
167	A novel effective model for solving 3D non-linear inverse scattering problems in a homogeneous background. , 0, , .		1
168	A novel effective model for solving 3D forward scattering problems in a homogeneous background. , 0, , .		1
169	A new hybrid series expansion for 3D forward scattering problems. , 2007, , .		1
170	An improved linear sampling method for location and shape reconstruction of 3D buried targets. , 2007, , .		1
171	A stepwise approach for quantitative 3D imaging: Rationale and experimental results. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	1
172	A feasibility study of a quantitative microwave tomography technique for structural monitoring. Near Surface Geophysics, 2010, 8, 389-396.	0.6	1
173	Quantitative imaging from diffracted fields intensities: an inversion method and its experimental validation. Journal of Modern Optics, 2010, 57, 777-782.	0.6	1
174	Feasibility study of a novel microwave breast cancer imaging approach exploiting Magnetic Nanoparticle as contrast agents. , 2012, , .		1
175	Utilities mapping via Linear Sampling Method. , 2012, , .		1
176	Full 3-D electromagnetic subsurface imaging using ground penetrating radar. , 2013, , .		1
177	Multiresolution finite element contrast source inversion method. , 2013, , .		1
178	A new hybrid FEM-IE inversion method for helmholtz scalar problems. , 2013, , .		1
179	Full-wave assessment of feasibility guidelines for 3-d microwave imaging of brain strokes. , 2013, , .		1
180	Corrections to "MNP Enhanced Microwave Breast Cancer Imaging: Measurement Constraints and Achievable Performances" [2012 1630-1633]. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1818-1818.	2.4	1

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181	New tomographic imaging strategies for GPR surveys. , 2014, , .		1
182	Three-dimensional power focusing and shaping for effective hyperthermia treatment planning. , 2014, , .		1
183	Exploiting virtual experiments for the solution of inverse scattering problem. , 2015, , .		1
184	On the Use of Spherical Harmonics in Sparse Microwave Imaging. , 2020, , .		1
185	THz Imaging for Food Inspections: A Technology Review and Future Trends. , 0, , .		1
186	The integration of novel diagnostics techniques for multi-scale monitoring of large civil infrastructures. Advances in Geosciences, 0, 19, 67-74.	12.0	1
187	A Simple Imaging Strategy for In-Line food Inspection via Microwave Imaging. , 2022, , .		1
188	A Microwave Imaging Device for Detecting Contaminants in Water-based Food Products. , 2022, , .		1
189	Microwave Imaging Device Prototype for Brain Stroke 3D Monitoring. , 2022, , .		1
190	Correction to "Subsurface inverse scattering problems: quantifying, qualifying, and achieving the available information". IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 728-728.	2.7	0
191	Distributed fiber optic Brillouin sensing in the frequency domain. , 2004, 5502, 500.		0
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