

Andrea Randazzo

List of Publications by Year in descending order

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174
papers

2,357
citations

201674

27
h-index

243625

44
g-index

177
all docs

177
docs citations

177
times ranked

1045
citing authors

#	ARTICLE	IF	CITATIONS
1	A Short-Range FMCW Radar-Based Approach for Multi-Target Human-Vehicle Detection. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	11
2	Experimental Assessment of a Novel Hybrid Scheme for Quantitative GPR Imaging. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	8
3	2-D Greenâ€™s Function for an Elliptically Layered Cylindrical PEC Enclosure. IEEE Transactions on Antennas and Propagation, 2022, 70, 7338-7343.	5.1	0
4	A Robust SVM Color-Based Food Segmentation Algorithm for the Production Process of a Traditional Carasau Bread. IEEE Access, 2022, 10, 15359-15377.	4.2	3
5	On the Fourier Transform of Measured Electric Fields Radiated by a Lightning Return Stroke. IEEE Transactions on Electromagnetic Compatibility, 2022, 64, 1257-1264.	2.2	7
6	On the reconstruction of the attenuation function of a return-stroke current from the Fourier Transform of finite-duration measurements. International Journal of Electrical Power and Energy Systems, 2022, 142, 108186.	5.5	2
7	Designing a Microwave Moisture Content Sensor for Carasau Bread: A Feasibility Study. , 2022, , .		2
8	Multistatic Electromagnetic Imaging of Dielectric Targets with LSTM Cells. , 2022, , .		0
9	A Hybrid Lebesgue-Space Inverse-Scattering Technique for Microwave Imaging of Objects Hidden Behind a Wall. , 2022, , .		1
10	A Microwave Imaging Technique Based on Artificial Neural Networks for Neck Tumors Detection. , 2022, , .		0
11	Microwaves as Diagnostic Tool for Pituitary Tumors: Preliminary Investigations. Electronics (Switzerland), 2022, 11, 1608.	3.1	0
12	Detection of Failures in Antenna Arrays Through a Lebesgue-Space Approach. IEEE Open Journal of Antennas and Propagation, 2022, 3, 652-662.	3.7	4
13	A Breath Monitoring Approach Based on Electrical Impedance Measurements. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 179-186.	3.4	2
14	Microwave Imaging for the Diagnosis of Cervical Diseases: A Feasibility Analysis. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 277-285.	3.4	18
15	2-D TM GPR Imaging Through a Multiscaling Multifrequency Approach in Lp Spaces. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10011-10021.	6.3	15
16	A Microwave Imaging Technique for Neck Diseases Monitoring. , 2021, , .		0
17	Analysis of a Nonlinear Technique for Microwave Imaging of Targets Inside Conducting Cylinders. Electronics (Switzerland), 2021, 10, 594.	3.1	4
18	An Electrical Impedance Tomography System for Brain Stroke Imaging based on a Lebesgue-Space Inversion Procedure. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 54-61.	3.4	3

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19	Nonlinear S-Parameters Inversion for Stroke Imaging. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1760-1771.	4.6	47
20	Nonlinear Inverse-Scattering in Variable-Exponent Spaces for Multifrequency Subsurface Imaging. , 2021, , .		0
21	A Through-the-Wall Imaging Approach Based on a TSVD/Variable-Exponent Lebesgue-Space Method. Remote Sensing, 2021, 13, 2028.	4.0	6
22	Two Ways for Early Detection of a Stroke Through a Wearable Smart Helmet: Signal Processing vs. Electromagnetism. IEEE Wireless Communications, 2021, 28, 22-27.	9.0	8
23	Full-Wave Modeling and Inversion of UWB Radar Data for Wave Propagation in Cylindrical Objects. Remote Sensing, 2021, 13, 2370.	4.0	0
24	Assessment of an L_p multi-frequency focusing inversion method for subsoil mapping with multi-frequency data. Microwave and Optical Technology Letters, 2021, 63, 2559-2564.	1.4	0
25	A Two-Step Inverse-Scattering Technique in Variable-Exponent Lebesgue Spaces for Through-the-Wall Microwave Imaging: Experimental Results. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 7189-7200.	6.3	14
26	Cost-Efficient FMCW Radar for Multi-Target Classification in Security Gate Monitoring. IEEE Sensors Journal, 2021, 21, 20447-20461.	4.7	14
27	Microwave Imaging of the Neck by Means of Artificial Neural Networks for Tumor Detection. IEEE Open Journal of Antennas and Propagation, 2021, 2, 1044-1056.	3.7	9
28	Through-the-Wall Imaging by means of a Hybrid Inverse-Scattering Procedure. , 2021, , .		0
29	An Iterative Multifrequency Approach in L_p Spaces for Multiscaling Detection of Buried Objects. , 2021, , .		0
30	Microwave Characterization and Modeling of the Carasau Bread Doughs During Leavening. IEEE Access, 2021, 9, 159833-159847.	4.2	11
31	Microwave Tomography of the Neck with ANNs: Preliminary Results with Simplified Numerical Phantoms. , 2021, , .		0
32	Effect of Data Noise on LSTM-FC Scattered-Field Processing for Microwave Imaging. , 2021, , .		0
33	Microwave Imaging of Dielectric Targets by Means of a Variable-Exponent Finite-Elements Approach. , 2021, , .		0
34	An Antenna Array Diagnostic Technique based on a Lebesgue-Space Inversion Procedure. , 2021, , .		0
35	A Tomographic Multistatic System for Biomedical Microwave Sensing. , 2020, , .		1
36	Microwave Detection of Brain Injuries by Means of a Hybrid Imaging Method. IEEE Open Journal of Antennas and Propagation, 2020, 1, 513-523.	3.7	22

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37	Microwave Imaging of Cervical Myelopathy: A Preliminary Feasibility Assessment. , 2020, , .		1
38	Pedestrian and Multi-Class Vehicle Classification in Radar Systems Using Rulex Software on the Raspberry Pi. Applied Sciences (Switzerland), 2020, 10, 9113.	2.5	6
39	A Phaseless Microwave Imaging Approach Based on a Lebesgue-Space Inversion Algorithm. IEEE Transactions on Antennas and Propagation, 2020, 68, 8091-8103.	5.1	24
40	Variable-Exponent Lebesgue-Space Inversion for Brain Stroke Microwave Imaging. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1882-1895.	4.6	48
41	Through-the-Wall Microwave Imaging: Forward and Inverse Scattering Modeling. Sensors, 2020, 20, 2865.	3.8	17
42	Multi-Frequency Inversion of Scattered-Field Data in Lebesgue Spaces with Nonconstant Exponents. , 2020, , .		0
43	A Microwave Diagnostic Technique for Early-Stage Brain Stroke Characterization. , 2020, , .		1
44	Inverse Scattering in the Framework of Unconventional Lebesgue Spaces: A Case Study. , 2020, , .		0
45	Single Target Recognition Using a Low-Cost FMCW Radar Based on Spectrum Analysis. , 2020, , .		3
46	Microwave Imaging by Means of Lebesgue-Space Inversion: An Overview. Electronics (Switzerland), 2019, 8, 945.	3.1	31
47	Microwave Imaging of 3D Dielectric Structures by Means of a Newton-CG Method in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle$ Spaces. International Journal of Antennas and Propagation. 2019, 2019, 1-14.	1.2	3
48	Mapping the Dielectric Properties of Unknown Targets by Using a Network of Microwave Sensors: A Proof-of-Concept. Sensors, 2019, 19, 1270.	3.8	0
49	Feature Extraction for Human-Vehicle Classification in FMCW Radar. , 2019, , .		8
50	A Hybrid Asymptotic-FVTD Method for the Estimation of the Radar Cross Section of 3D Structures. Electronics (Switzerland), 2019, 8, 1388.	3.1	3
51	A Field Assessment of a Rain Estimation System Based on Satellite-to-Earth Microwave Links. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 2864-2875.	6.3	18
52	Microwave Tomography for the Inspection of Wood Materials: Imaging System and Experimental Results. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3497-3510.	4.6	57
53	A numerical study concerning brain stroke detection by microwave imaging systems. Multimedia Tools and Applications, 2018, 77, 9341-9363.	3.9	30
54	Microwave Sensor Network for Quantitative Characterization of Targets: A Proof-of-Concept. , 2018, , .		1

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55	A Tomograph Prototype for Quantitative Microwave Imaging: Preliminary Experimental Results. Journal of Imaging, 2018, 4, 139.	3.0	15
56	A Newton-Conjugate-Gradient Method in L^p Banach Spaces for Three-Dimensional Microwave Imaging. , 2018, , .		0
57	An Imaging Technique for Brain Stroke Monitoring at Microwaves. , 2018, , .		1
58	Quantitative Microwave Imaging Method in Lebesgue Spaces With Nonconstant Exponents. IEEE Transactions on Antennas and Propagation, 2018, 66, 7282-7294.	5.1	31
59	Microwave Imaging Method Developed in Lebesgue Spaces for Inspecting Dielectric Targets. , 2018, , .		0
60	Design and Experimental Test of a Microwave System for Quantitative Biomedical Imaging. , 2018, , .		4
61	Brain Stroke Microwave Imaging by Means of a Newton-Conjugate-Gradient Method in L^p Banach Spaces. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3668-3682.	4.6	58
62	Three-Dimensional Microwave Imaging in L^p Banach Spaces: Numerical and Experimental Results. IEEE Transactions on Computational Imaging, 2018, 4, 609-623.	4.4	9
63	Ground-penetrating radar for tree trunk investigation. , 2017, , .		2
64	Pros and cons of microwave imaging techniques for the reconstruction of velocity profiles of cylindrical targets in axial motion. , 2017, , .		2
65	Electromagnetic biomedical imaging in Banach spaces: A numerical case study. , 2017, , .		2
66	Mobile Smart Helmet for Brain Stroke Early Detection through Neural Network-Based Signals Analysis. , 2017, , .		5
67	Preliminary assessment of an L_p Banach-space inversion approach for through-the-wall imaging. , 2017, , .		1
68	Microwave data inversion in hemorrhagic brain stroke imaging: A Newton-conjugate-gradient based approach in L_p Banach spaces (Invited paper). , 2017, , .		0
69	An inverse scattering procedure in Lebesgue spaces with non-constant exponents. , 2017, , .		0
70	Three-dimensional electromagnetic imaging of dielectric targets by means of the multiscaling inexact-Newton method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1119.	1.5	23
71	2-D Green's Function for Scattering and Radiation Problems in Elliptically Layered Media With PEC Cores. IEEE Transactions on Antennas and Propagation, 2017, 65, 7110-7118.	5.1	5
72	Advanced Inversion Techniques for Ground Penetrating Radar. Journal of Telecommunications and Information Technology, 2017, 3, 37-42.	0.4	5

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73	A Banach Space Regularization Approach for Multifrequency Microwave Imaging. International Journal of Antennas and Propagation, 2016, 2016, 1-8.	1.2	16
74	A two-step multifrequency imaging technique for ground penetrating radar. , 2016, , .		0
75	Noise Limitations on the Recovery of Average Values of Velocity Profiles in Pipelines by Simple Imaging Systems. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1340-1344.	3.1	7
76	Experimental analysis of dielectric structures with a two-step electromagnetic imaging method. , 2016, , .		0
77	Multi-resolution approaches for GPR-data inversion. , 2016, , .		0
78	Alphabet CS for inverse scattering. , 2016, , .		0
79	Microwave imaging systems: Three-dimensional reconstructions of dielectric targets. , 2016, , .		0
80	Further investigations on the capabilities of inverse scattering procedures to recover velocity profiles of cylinders moving in the axial direction. , 2016, , .		0
81	A three-dimensional microwave imaging approach based on a L_p Banach space inversion procedure. , 2016, , .		0
82	Buried object detection by means of a L_b Banach-space inversion procedure. Radio Science, 2015, 50, 41-51.	1.6	27
83	Reconstruction of velocity profiles of two-dimensional targets by an inverse scattering procedure based on a numerical forward solver. , 2015, , .		0
84	A hybrid FVTD-PO approach for the characterization of antennas on large platforms in naval applications. , 2015, , .		0
85	Microwave imaging of dielectric targets by means of an inexact-Newton method in L Banach spaces and multifrequency processing. , 2015, , .		0
86	A Banach-space multifrequency imaging approach for electromagnetic subsurface sensing. , 2015, , .		0
87	A multifrequency Banach-space inversion method for ground penetrating radar imaging. , 2015, , .		0
88	A radar cross section and radar performance evaluation tool for the early stage ship design (ESSD) phase. , 2015, , .		0
89	Preliminary test of a prototype of microwave axial tomograph for medical applications. , 2015, , .		6
90	Hybrid Microwave Approach for Phaseless Imaging of Dielectric Targets. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 851-854.	3.1	17

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91	A Multifrequency Inexact-Newton Method in L^p Banach Spaces for Buried Objects Detection. IEEE Transactions on Antennas and Propagation, 2015, 63, 1198-1204.	5.1	54
92	A microwave tomographic system for wood characterization in the forest products industry. Wood Material Science and Engineering, 2015, 10, 75-85.	2.3	30
93	Electromagnetic Inverse Scattering of Axially Moving Cylindrical Targets. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1452-1462.	6.3	21
94	GPR Imaging Via Qualitative and Quantitative Approaches. Springer Transactions in Civil and Environmental Engineering, 2015, , 239-280.	0.4	41
95	FVTD-based analysis of brain stroke response in microwave imaging systems. , 2014, , .		2
96	Quick and reliable estimates of velocity profiles in pipelines by a simple electromagnetic inverse scattering technique. , 2014, , .		1
97	Experimental validation of a novel Gauss-Newton inversion method for microwave tomographic imaging. , 2014, , .		1
98	Microwave imaging of dielectric targets by using the inexact-Newton method: A short review. , 2014, , .		2
99	Electromagnetic subsurface prospecting by a fully nonlinear multifocusing inexact Newton method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2618.	1.5	20
100	Electromagnetic subsurface prospecting by a multifocusing inexact Newton method within the second-order Born approximation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 1167.	1.5	29
101	A Trainingless WiFi Fingerprint Positioning Approach Over Mobile Devices. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 832-835.	4.0	79
102	Electromagnetic Scattering by Lossy Multilayer Elliptic Cylinders. IEEE Microwave and Wireless Components Letters, 2014, 24, 584-586.	3.2	3
103	Two-Dimensional Green's Function for Scattering and Radiation Problems in Elliptically-Layered Media. IEEE Transactions on Antennas and Propagation, 2014, 62, 2071-2080.	5.1	11
104	An inverse scattering approach for inspecting dielectric scatterers at microwave frequencies without phase information. , 2013, , .		3
105	Detection of subsurface metallic utilities by means of a SAP technique: Comparing MUSIC- and SVM-based approaches. Journal of Applied Geophysics, 2013, 97, 60-68.	2.1	27
106	Reconstruction of dielectric and velocity profiles in pipelines through an electromagnetic inverse scattering technique. , 2013, , .		3
107	Microwave imaging of elliptically shaped dielectric cylinders by means of an L^p Banach-space inversion algorithm. Measurement Science and Technology, 2013, 24, 074017.	2.6	19
108	Electromagnetic inverse scattering of axially moving elliptic targets. , 2013, , .		0

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109	Microwave Imaging of Three-Dimensional Targets by Means of an Inexact-Newton-Based Inversion Algorithm. International Journal of Antennas and Propagation, 2013, 2013, 1-10.	1.2	14
110	Microwave and Millimeter-Wave Sensors, Systems, and Techniques for Electromagnetic Imaging and Materials Characterization. International Journal of Microwave Science and Technology, 2012, 2012, 1-2.	0.6	2
111	Buried Object Detection by an Inexact Newton Method Applied to Nonlinear Inverse Scattering. International Journal of Microwave Science and Technology, 2012, 2012, 1-7.	0.6	12
112	Numerical assessment of the capabilities of a microwave imaging approach for the reconstruction of dielectric targets in nondestructive evaluation applications. Measurement Science and Technology, 2012, 23, 114008.	2.6	2
113	Electromagnetic imaging within the contrast-source formulation by means of the multiscaling inexact Newton method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 945.	1.5	21
114	Sub-surface localization of buried cylinders by means of sub-array processing. , 2012, , .		0
115	A Banach-space regularization approach for microwave imaging. , 2012, , .		1
116	Microwave imaging of elliptically-shaped dielectric cylinders by means of a L^p Banach-space inversion algorithm. , 2012, , .		0
117	Inversion of EM scattering data through a multiresolution regularization approach within the contrast source formulation. , 2012, , .		0
118	Swarm Optimization Methods in Microwave Imaging. International Journal of Microwave Science and Technology, 2012, 2012, 1-12.	0.6	28
119	Impact of Background Noise on Dielectric Reconstructions Obtained by a Prototype of Microwave Axial Tomograph. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 140-148.	4.7	27
120	A regularisation scheme for electromagnetic inverse problems: application to crack detection in civil structures. Nondestructive Testing and Evaluation, 2012, 27, 189-197.	2.1	13
121	Reconstruction of Metallic Inclusions Inside Dielectric Targets by Means of a Microwave Tomographic System. IEEE Microwave and Wireless Components Letters, 2012, 22, 378-380.	3.2	10
122	Imaging of dielectric targets with metallic inclusions by means of a prototype of microwave axial tomograph. , 2012, , .		0
123	Trainingless fingerprinting-based indoor positioning algorithms with Smartphones using electromagnetic propagation models. , 2012, , .		7
124	A Novel Microwave Imaging Approach Based on Regularization in L^p Banach Spaces. IEEE Transactions on Antennas and Propagation, 2012, 60, 3373-3381.	5.1	81
125	Microwave axial tomograph for medical applications: Preliminary set-up configuration. , 2011, , .		3
126	IMAGING OF SEPARATE SCATTERERS BY MEANS OF A MULTISCALING MULTIREGION INEXACT-NEWTON APPROACH. Progress in Electromagnetics Research M, 2011, 18, 247-257.	0.9	8

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127	Electromagnetic inversion with the multiscaling inexact Newton method – experimental validation. Microwave and Optical Technology Letters, 2011, 53, 2834-2838.	1.4	24
128	CSI-CFI formulations of the multiresolution Inexact Newton method – A numerical comparison. , 2011, , .		0
129	Assessment of the electromagnetic inversion with the multiscaling Inexact-Newton method. , 2011, , .		0
130	Crack detection in dielectric structures by a linear sampling approach. International Journal of Signal and Imaging Systems Engineering, 2010, 3, 73.	0.6	2
131	A Differential Evolution-based iterative multi-scaling algorithm for microwave imaging of dielectric structures. , 2010, , .		2
132	Integration of linear sampling and Newton-like schemes in inverse scattering. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	2
133	An inverse scattering based hybrid method for the measurement of the complex dielectric permittivities of arbitrarily shaped homogenous targets. , 2009, , .		3
134	Microwave detection of unknown targets by using Support Vector Machines. , 2009, , .		3
135	A New Microwave Axial Tomograph for the Inspection of Dielectric Materials. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2072-2079.	4.7	25
136	Imaging of unknown targets inside inhomogeneous backgrounds by means of qualitative inverse scattering. Inverse Problems and Imaging, 2009, 3, 231-241.	1.1	2
137	Microwave imaging of foreign bodies inside wood trunks. , 2008, , .		7
138	A Hybrid Approach to 3D Microwave Imaging by Using Linear Sampling and ACO. IEEE Transactions on Antennas and Propagation, 2008, 56, 3224-3232.	5.1	58
139	Enhanced nonlinear inverse scattering through linear super-resolution techniques. , 2008, , .		0
140	A linear sampling approach to crack detection in microwave imaging. , 2008, , .		11
141	Hybrid approach to the inverse scattering problem by using ant colony optimization and no-sampling linear sampling. , 2008, , .		7
142	Microwave detection of dielectric structures by using a tomographic approach. , 2008, , .		4
143	The Differential Evolution Algorithm as Applied to Array Antennas and Imaging. Studies in Computational Intelligence, 2008, , 239-255.	0.9	3
144	A numerical evaluation of an optimal setup for a microwave axial tomograph aimed at the inspection of wood. , 2007, , .		2

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145	Direction of Arrival Estimation Based on Support Vector Regression: Experimental Validation and Comparison With MUSIC. IEEE Antennas and Wireless Propagation Letters, 2007, 6, 379-382.	4.0	78
146	Application of an Inexact-Newton Method Within the Second-Order Born Approximation to Buried Objects. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 51-55.	3.1	40
147	Short-Range Image-Based Method for the Inspection of Strong Scatterers Using Microwaves. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1181-1188.	4.7	37
148	A Microwave Axial Tomograph: Experimental Set Up and Reconstruction Procedure. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	7
149	An Inexact Newton Method for Microwave Reconstruction of Strong Scatterers. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 61-64.	4.0	63
150	Optimization of the Directivity of a Monopulse Antenna With a Subarray Weighting by a Hybrid Differential Evolution Method. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 155-158.	4.0	65
151	A Microwave Imaging Method for NDE/NDT Based on the SMW Technique for the Electromagnetic Field Prediction. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 240-247.	4.7	16
152	New Results on Electromagnetic Imaging Based on the Inversion of Synthetic and Measured Scattered-Field Data. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1085-1093.	4.7	4
153	The SVM-Based Smart Antenna for Estimation of the Directions of Arrival of Electromagnetic Waves. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 1918-1925.	4.7	25
154	Short-Range Microwave Imaging Technique Based on an Inexact-Newton Method for the Nondestructive Inspection of Dielectric Objects. , 2006, , .		1
155	Short-range Image-based Method for the Inspection of Strong Scatterers using Microwaves. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
156	A Microwave Axial Tomograph: Experimental Set Up and Reconstruction Procedure. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	6
157	An inexact-Newton method for short-range microwave imaging within the second-order Born approximation. IEEE Transactions on Geoscience and Remote Sensing, 2005, 43, 2593-2605.	6.3	62
158	A two-step iterative inexact-Newton method for electromagnetic imaging of dielectric structures from real data. Inverse Problems, 2005, 21, S81-S94.	2.0	45
159	Interactions between electromagnetic waves and elliptically shaped metamaterials. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 165-168.	4.0	8
160	A smart antenna system for direction of arrival estimation based on a support vector regression. IEEE Transactions on Antennas and Propagation, 2005, 53, 2161-2168.	5.1	105
161	Optimization of the difference patterns for monopulse antennas by a hybrid real/integer-coded differential evolution method. IEEE Transactions on Antennas and Propagation, 2005, 53, 372-376.	5.1	141
162	Reconstruction of two-dimensional buried objects by a differential evolution method. Inverse Problems, 2004, 20, S135-S150.	2.0	55

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163	A Reconstruction Procedure for Microwave Nondestructive Evaluation Based on a Numerically Computed Green's Function. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 987-992.	4.7	14
164	Reconstruction Algorithms for Electromagnetic Imaging. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 692-699.	4.7	29
165	Detection of PEC elliptic cylinders by a memetic algorithm using real data. Microwave and Optical Technology Letters, 2004, 43, 271-273.	1.4	3
166	Detection of buried inhomogeneous elliptic cylinders by a memetic algorithm. IEEE Transactions on Antennas and Propagation, 2003, 51, 2878-2884.	5.1	54
167	Electromagnetic detection of dielectric scatterers using phaseless synthetic and real data and the memetic algorithm. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2745-2753.	6.3	58
168	Active imaging approach for NDE applications based on a hybrid genetic algorithm. , 2001, , .		1
169	Detection of buried objects by an electromagnetic method based on a differential evolution approach. , 0, , .		3
170	A smart antenna for the DOA estimation of impinging signals and passive obstacle detection for homeland security. , 0, , .		1
171	An Inexact-Newton Algorithm for Tomographic Microwave Imaging. , 0, , .		1
172	A New Microwave Axial Tomograph for the Inspection of Dielectric Materials. , 0, , .		2
173	Synthesis of Metamaterial Coatings for Cylindrical Structures by an Ant-Colony Optimization Algorithm. , 0, , .		2
174	Nondestructive Analysis of Dielectric Bodies by Means of an Ant Colony Optimization Method. , 0, , 308-325.		2