

Francesco F Soldovieri

List of Publications by Year in descending order

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334
papers

6,863
citations

66343

42
h-index

95266

68
g-index

340
all docs

340
docs citations

340
times ranked

3800
citing authors

#	ARTICLE	IF	CITATIONS
1	Radar evidence of subglacial liquid water on Mars. <i>Science</i> , 2018, 361, 490-493.	12.6	346
2	Three-dimensional focusing with multipass SAR data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 507-517.	6.3	260
3	The role of the measurement configuration in inverse scattering from buried objects under the Born approximation. <i>IEEE Transactions on Antennas and Propagation</i> , 2005, 53, 1875-1887.	5.1	183
4	A Microwave Resonant Sensor for Concentration Measurements of Liquid Solutions. <i>IEEE Sensors Journal</i> , 2013, 13, 1857-1864.	4.7	180
5	Radio Frequency Tomography for Tunnel Detection. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2010, 48, 1128-1137.	6.3	164
6	Through-Wall Imaging via a Linear Inverse Scattering Algorithm. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2007, 4, 513-517.	3.1	151
7	Multiple subglacial water bodies below the south pole of Mars unveiled by new MARSIS data. <i>Nature Astronomy</i> , 2021, 5, 63-70.	10.1	127
8	Analysis of the distorted born approximation for subsurface reconstruction: truncation and uncertainties effects. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 66-74.	6.3	119
9	A linear inverse scattering algorithm for realistic GPR applications. <i>Near Surface Geophysics</i> , 2007, 5, 29-41.	1.2	108
10	The Moon's farside shallow subsurface structure unveiled by Chang'e-4 Lunar Penetrating Radar. <i>Science Advances</i> , 2020, 6, eaay6898.	10.3	103
11	A Microwave Tomography Approach for a Differential Configuration in GPR Prospecting. <i>IEEE Transactions on Antennas and Propagation</i> , 2006, 54, 3541-3548.	5.1	101
12	A two probes scanning phaseless near-field far-field transformation technique. <i>IEEE Transactions on Antennas and Propagation</i> , 1999, 47, 792-802.	5.1	97
13	Three-Dimensional Through-Wall Imaging Under Ambiguous Wall Parameters. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009, 47, 1310-1317.	6.3	95
14	Ground Clutter Removal in GPR Surveys. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 792-798.	4.9	91
15	SAR Imaging Algorithms and Some Unconventional Applications: A unified mathematical overview. <i>IEEE Signal Processing Magazine</i> , 2014, 31, 90-98.	5.6	89
16	A Kirchhoff-Based Shape Reconstruction Algorithm for the Multimono-static Configuration: The Realistic Case of Buried Pipes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 3031-3038.	6.3	86
17	A Multiarray Tomographic Approach for Through-Wall Imaging. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1192-1199.	6.3	85
18	On the information content of the radiated fields in the near zone over bounded domains. <i>Inverse Problems</i> , 1998, 14, 321-337.	2.0	79

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19	A Novel Strategy for the Surface Current Determination From Marine X-Band Radar Data. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 231-235.	3.1	79
20	Sparse Reconstruction From GPR Data With Applications to Rebar Detection. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1070-1079.	4.7	78
21	GPR Response From Buried Pipes: Measurement on Field Site and Tomographic Reconstructions. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2639-2645.	6.3	74
22	Shape reconstruction from PO multifrequency scattered fields via the singular value decomposition approach. IEEE Transactions on Antennas and Propagation, 2001, 49, 1333-1343.	5.1	73
23	Combination of Advanced Inversion Techniques for an Accurate Target Localization via GPR for Demining Applications. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 451-461.	6.3	71
24	An effective approach for the optimal focusing of array fields subject to arbitrary upper bounds. IEEE Transactions on Antennas and Propagation, 2000, 48, 1837-1847.	5.1	70
25	Multipath Ghosts in Radar Imaging: Physical Insight and Mitigation Strategies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1078-1086.	4.9	68
26	Processing strategies for high-resolution GPR concrete inspections. NDT and E International, 2010, 43, 334-342.	3.7	63
27	Multiple Extended Target Tracking for Through-Wall Radars. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6482-6494.	6.3	61
28	Effects of Background Removal in Linear Inverse Scattering. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1104-1114.	6.3	58
29	GPR and sonic tomography for structural restoration: the case of the cathedral of Tricarico. Journal of Geophysics and Engineering, 2011, 8, S76-S92.	1.4	58
30	Detection of fractures from GPR data: the case history of the Cathedral of Otranto. Journal of Geophysics and Engineering, 2007, 4, 452-461.	1.4	56
31	A Linear Inverse Scattering Algorithm for Radar Imaging in Multipath Environments. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1085-1089.	3.1	56
32	On the local minima in phase reconstruction algorithms. Radio Science, 1996, 31, 1887-1899.	1.6	55
33	An integrated geophysical approach for water infiltration detection and characterization at Monte Cotugno rock-fill dam (southern Italy). Engineering Geology, 2016, 211, 162-170.	6.3	53
34	In-depth resolution for a strip source in the Fresnel zone. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2001, 18, 352.	1.5	49
35	Beyond Physical Optics SVD Shape Reconstruction of Metallic Cylinders. IEEE Transactions on Antennas and Propagation, 2006, 54, 655-665.	5.1	46
36	Early-stage leaking pipes GPR monitoring via microwave tomographic inversion. Journal of Applied Geophysics, 2009, 67, 270-277.	2.1	46

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37	Transport Infrastructure Surveillance and Monitoring by Electromagnetic Sensing: The ISTIMES Project. <i>Sensors</i> , 2010, 10, 10620-10639.	3.8	46
38	Real-Time Through-Wall Situation Awareness Using a Microwave Doppler Radar Sensor. <i>Remote Sensing</i> , 2016, 8, 621.	4.0	46
39	A Tomographic Approach for Helicopter-Borne Ground Penetrating Radar Imaging. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2012, 9, 378-382.	3.1	45
40	BISTATIC TOMOGRAPHIC GPR IMAGING FOR INCIPIENT PIPELINE LEAKAGE EVALUATION. <i>Progress in Electromagnetics Research</i> , 2010, 101, 307-321.	4.4	44
41	A Comparative Study of GPR Reconstruction Approaches for Landmine Detection. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 4869-4878.	4.9	44
42	A Microwave Tomographic Imaging Approach for Multibistatic Configuration: The Choice of the Frequency Step. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2006, 55, 1926-1934.	4.7	43
43	Forward-Looking Ground-Penetrating Radar via a Linear Inverse Scattering Approach. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 5624-5633.	6.3	42
44	Localization of the Interfaces of a Slab Hidden Behind a Wall. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 2471-2482.	6.3	41
45	Global convergence of phase retrieval by quadratic approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2005, 53, 3135-3141.	5.1	38
46	GPR and microwave tomography for detecting shallow cavities in the historical area of Sassi di Matera (southern Italy). <i>Near Surface Geophysics</i> , 2007, 5, 275-284.	1.2	38
47	TWI for an Unknown Symmetric Lossless Wall. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 2876-2886.	6.3	38
48	Assessment of a micro-UAV system for microwave tomography radar imaging. <i>Remote Sensing of Environment</i> , 2018, 212, 90-102.	11.0	38
49	On the Achievable Imaging Performance in Full 3-D Linear Inverse Scattering. <i>IEEE Transactions on Antennas and Propagation</i> , 2015, 63, 1150-1155.	5.1	37
50	Role of support information and zero locations in phase retrieval by a quadratic approach. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1999, 16, 1845.	1.5	36
51	A SIMPLE STRATEGY TO DETECT CHANGES IN THROUGH THE WALL IMAGING. <i>Progress in Electromagnetics Research M</i> , 2009, 7, 1-13.	0.9	36
52	An X-Band Radar System for Bathymetry and Wave Field Analysis in a Harbour Area. <i>Sensors</i> , 2015, 15, 1691-1707.	3.8	36
53	Shape reconstruction of perfectly conducting objects by multiview experimental data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 65-71.	6.3	35
54	The application of inverse scattering techniques with ground penetrating radar to the problem of rebar location in concrete. <i>NDT and E International</i> , 2006, 39, 602-607.	3.7	35

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55	Three-Dimensional Microwave Tomography by a 2-D Slice-Based Reconstruction Algorithm. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 556-560.	3.1	35
56	Convergence properties of a quadratic approach to the inverse-scattering problem. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 2424.	1.5	33
57	Ground Penetrating Radar Subsurface Imaging of Buried Objects. , 2010, , .		32
58	Bathymetry Determination via X-Band Radar Data: A New Strategy and Numerical Results. Sensors, 2010, 10, 6522-6534.	3.8	32
59	ON THE FEASIBILITY OF THE LINEAR SAMPLING METHOD FOR 3D GPR SURVEYS. Progress in Electromagnetics Research, 2011, 118, 185-203.	4.4	32
60	REMOCEAN: A Flexible X-Band Radar System for Sea-State Monitoring and Surface Current Estimation. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 822-826.	3.1	32
61	RF Tomography for Below-Ground Imaging of Extended Areas and Close-in Sensing. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 496-500.	3.1	31
62	Microwave tomography for processing of GPR data at Ballachulish. Journal of Geophysics and Engineering, 2010, 7, 164-173.	1.4	31
63	Forward-Looking Radar Imaging: A Comparison of Two Data Processing Strategies. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 562-571.	4.9	31
64	Applying Ground-Penetrating Radar and Microwave Tomography Data Processing in Cultural Heritage: State of the Art and Future Trends. IEEE Signal Processing Magazine, 2019, 36, 53-61.	5.6	31
65	Linear and Nonlinear Microwave Tomography Approaches for Subsurface Prospecting: Validation on Real Data. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 49-53.	4.0	30
66	Advanced Processing Techniques for Step-Frequency Continuous-Wave Penetrating Radar: The Case Study of "Palazzo Vecchio" Walls (Firenze, Italy). Research in Nondestructive Evaluation, 2006, 17, 71-83.	1.1	30
67	Contactless Ground Penetrating Radar Imaging: State of the art, challenges, and microwave tomography-based data processing. IEEE Geoscience and Remote Sensing Magazine, 2022, 10, 251-273.	9.6	30
68	Validation of Microwave Tomographic Inverse Scattering Approach via Through-the-Wall Experiments in Semicontrolled Conditions. IEEE Geoscience and Remote Sensing Letters, 2011, 8, 123-127.	3.1	29
69	RF/Microwave Imaging of Sparse Targets in Urban Areas. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 643-646.	4.0	29
70	Remocean System for the Detection of the Reflected Waves from the Costa Concordia Ship Wreck. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 3011-3018.	4.9	29
71	A strategy for the determination of the dielectric permittivity of a lossy soil exploiting GPR surface measurements and a cooperative target. Journal of Applied Geophysics, 2009, 67, 288-295.	2.1	28
72	Effect of the height of the observation line on the the diffraction curve in GPR prospecting. Near Surface Geophysics, 2015, 13, 243-252.	1.2	28

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73	Structural Assessment via Ground Penetrating Radar at the Consoli Palace of Gubbio (Italy). Remote Sensing, 2018, 10, 45.	4.0	28
74	A Novel CS-TSVD Strategy to Perform Data Reduction in Linear Inverse Scattering Problems. IEEE Geoscience and Remote Sensing Letters, 2012, 9, 881-885.	3.1	27
75	Comparative Analysis of Two Approaches for Multipath Ghost Suppression in Radar Imaging. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 1226-1230.	3.1	27
76	A Novel Approach Based on Marine Radar Data Analysis for High-Resolution Bathymetry Map Generation. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 234-238.	3.1	26
77	A Comparison of Linear Inverse Scattering Models for Contactless GPR Imaging. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 7305-7316.	6.3	26
78	Effect of source and receiver radiation characteristics in subsurface prospecting within the distorted Born approximation. Radio Science, 2005, 40, n/a-n/a.	1.6	25
79	Novel tomographic based approach and processing strategies for GPR measurements using multifrequency antennas. Journal of Cultural Heritage, 2009, 10, e83-e92.	3.3	25
80	DESIGN OF A RECONFIGURABLE ANTENNA FOR GROUND PENETRATING RADAR APPLICATIONS. Progress in Electromagnetics Research, 2009, 94, 1-18.	4.4	24
81	Physical Optics Imaging of 3-D PEC Objects: Vector and Multipolarized Approaches. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 1799-1808.	6.3	24
82	Imaging Below Irregular Terrain Using RF Tomography. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3364-3373.	6.3	24
83	All frequency domain distributed fiber-optic brillouin sensing. IEEE Sensors Journal, 2003, 3, 36-43.	4.7	23
84	Improving a Shape Reconstruction Algorithm with Thresholds and Multi-View Data. AEU - International Journal of Electronics and Communications, 2004, 58, 118-124.	2.9	23
85	Ground Penetrating Radar in Dam Monitoring: The Test Case of Acerenza (Southern Italy). International Journal of Geophysics, 2011, 2011, 1-9.	1.1	23
86	Dielectric constant estimation of the uppermost Basal Unit layer in the martian Boreales Scopuli region. Icarus, 2012, 219, 458-467.	2.5	23
87	Radar Imaging Through a Building Corner. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6750-6761.	6.3	23
88	Microwave Tomography-Enhanced GPR in Forensic Surveys: The Case Study of a Tropical Environment. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 115-124.	4.9	23
89	Application of Microwave Tomography in Hydrogeophysics: Some Examples. Vadose Zone Journal, 2008, 7, 160-170.	2.2	22
90	X-Band Marine Radar System for High-Speed Navigation Purposes: A Test Case on a Cruise Ship. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 244-248.	3.1	21

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91	THz Imaging as a Method to Detect Defects of Aeronautical Coatings. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1264-1277.	2.2	21
92	A SIMPLE STRATEGY FOR LIFE SIGNS DETECTION VIA AN X-BAND EXPERIMENTAL SET-UP. Progress in Electromagnetics Research C, 2009, 9, 119-129.	0.9	20
93	Sparse Tomographic Inverse Scattering Approach for Through-the-Wall Radar Imaging. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 3340-3350.	4.7	20
94	Radar Imaging Through Cinderblock Walls: Achievable Performance by a Model-Corrected Linear Inverse Scattering Approach. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6738-6749.	6.3	20
95	GPR-4D monitoring a controlled LNAPL spill in a masonry tank at USP, Brazil. Journal of Applied Geophysics, 2014, 103, 237-244.	2.1	20
96	TWI EXPERIMENTAL RESULTS BY A LINEAR INVERSE SCATTERING APPROACH. Progress in Electromagnetics Research, 2009, 91, 259-272.	4.4	19
97	DESIGN OF A BALUN FOR A BOW TIE ANTENNA IN RECONFIGURABLE GROUND PENETRATING RADAR SYSTEMS. Progress in Electromagnetics Research C, 2011, 18, 123-135.	0.9	19
98	Evaluation of rodents'™ respiratory activity using a bioradar. IET Radar, Sonar and Navigation, 2015, 9, 1296-1302.	1.8	19
99	Proof of concept of micro-UAV-based radar imaging. , 2017, , .		19
100	ULTRA: Wideband Ground Penetrating Radar. , 2006, , .		18
101	Permittivity estimation of layers beneath the northern polar layered deposits, Mars. Geophysical Research Letters, 2010, 37, .	4.0	18
102	Ground penetrating radar and microwave tomography 3D applications for the deck evaluation of the Musmeci bridge in Potenza, Italy. Journal of Geophysics and Engineering, 2011, 8, S33-S46.	1.4	18
103	A new combined wavelet methodology: implementation to GPR and ERT data obtained in the Montagnole experiment. Journal of Geophysics and Engineering, 2013, 10, 025017.	1.4	18
104	Monte Cotugno Dam Monitoring by the Electrical Resistivity Tomography. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 5346-5351.	4.9	18
105	Radio Frequency Tomography for Nondestructive Testing of Pillars. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3916-3926.	6.3	18
106	Effects of uncertainty on background permittivity in one-dimensional linear inverse scattering. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2004, 21, 2334.	1.5	17
107	Ground-penetrating radar and microwave tomography to evaluate the crack and joint geometry in historical buildings: some examples from Chania, Crete, Greece. Near Surface Geophysics, 2010, 8, 377-388.	1.2	17
108	Integrated geophysical techniques for sustainable management of water resource. A case study of local dry bean versus commercial common bean cultivars. Agricultural Water Management, 2015, 162, 57-66.	5.6	17

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109	A Data Processing Chain for Terahertz Imaging and Its Use in Artwork Diagnostics. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 518-530.	2.2	17
110	A low frequency airborne GPR system for wide area geophysical surveys: The case study of Morocco Desert. <i>Remote Sensing of Environment</i> , 2019, 233, 111409.	11.0	17
111	Far-field antenna pattern estimation from near-field data using a low-cost amplitude-only measurement setup. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2000, 49, 71-76.	4.7	16
112	Reconstruction of an Embedded Slab From Multifrequency Scattered Field Data Under the Distorted Born Approximation. <i>IEEE Transactions on Antennas and Propagation</i> , 2004, 52, 2348-2356.	5.1	16
113	One-dimensional inverse scattering with a Born model in a three-layered medium. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2004, 21, 35.	1.5	16
114	Passive Multiarray Image Fusion for RF Tomography by Opportunistic Sources. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 641-645.	3.1	16
115	X-Band Wave Radar for Coastal Upwelling Detection off the Southern Coast of Sicily. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 21-31.	1.3	16
116	On the Combined Use of Ground Penetrating Radar and Crack Meter Sensors for Structural Monitoring: Application to the Historical Consoli Palace in Gubbio, Italy. <i>Surveys in Geophysics</i> , 2020, 41, 647-667.	4.6	16
117	Dielectric profiles reconstruction via the quadratic approach in 2-D geometry from multifrequency and multifrequency/multiview data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 2709-2718.	6.3	15
118	Structural monitoring via microwave tomography-enhanced GPR: the Montagnole test site. <i>Journal of Geophysics and Engineering</i> , 2012, 9, S100-S107.	1.4	15
119	Full three-dimensional imaging via ground penetrating radar: assessment in controlled conditions and on field for archaeological prospecting. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 1415-1422.	2.3	15
120	Oil spill monitoring via microwave tomography enhanced GPR surveys. <i>Journal of Applied Geophysics</i> , 2014, 108, 95-103.	2.1	15
121	Normalized Scalar Product Approach for Nearshore Bathymetric Estimation From X-Band Radar Images: An Assessment Based on Simulated and Measured Data. <i>IEEE Journal of Oceanic Engineering</i> , 2018, 43, 221-237.	3.8	15
122	A Microwave Tomography Strategy for Underwater Imaging via Ground Penetrating Radar. <i>Remote Sensing</i> , 2018, 10, 1410.	4.0	15
123	The Use of Ground Penetrating Radar and Microwave Tomography for the Detection of Decay and Cavities in Tree Trunks. <i>Remote Sensing</i> , 2019, 11, 2073.	4.0	15
124	Small Multicopter-UAV-Based Radar Imaging: Performance Assessment for a Single Flight Track. <i>Remote Sensing</i> , 2020, 12, 774.	4.0	15
125	Transport Infrastructure SHM Using Integrated SAR Data and On-Site Vibrational Acquisitions: "Ponte Della Musica" Armando Trovajoli Case Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6504.	2.5	15
126	Assessing the role of clay and salts on the origin of MARSIS basal bright reflections. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117370.	4.4	15

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127	Interpreting complex, three-dimensional, near-surface GPR surveys: an integrated modelling and inversion approach. <i>Near Surface Geophysics</i> , 2011, 9, 297-304.	1.2	14
128	Microwave tomography enhanced GPR surveys in Centaurus's Domus, Regio VI of Pompeii, Italy. <i>Journal of Geophysics and Engineering</i> , 2012, 9, S92-S99.	1.4	14
129	GPR ESTIMATION OF THE GEOMETRICAL FEATURES OF BURIED METALLIC TARGETS IN TESTING CONDITIONS. <i>Progress in Electromagnetics Research B</i> , 2013, 49, 339-362.	1.0	14
130	Application of step-frequency radars in medicine. , 2014, , .		14
131	Three-Dimensional Through-Wall Sensing of Moving Targets Using Passive Multistatic Radars. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 141-148.	4.9	14
132	Reconstruction Capabilities of Down-Looking Airborne GPRs: The Single Frequency Case. <i>IEEE Transactions on Computational Imaging</i> , 2017, 3, 917-927.	4.4	14
133	The ASI Integrated Sounder-SAR System Operating in the UHF-VHF Bands: First Results of the 2018 Helicopter-Borne Morocco Desert Campaign. <i>Remote Sensing</i> , 2019, 11, 1845.	4.0	14
134	Reconstruction of complex signals from intensities of Fourier-transform pairs. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1996, 13, 1546.	1.5	13
135	Frequency-domain approach to distributed fiber-optic Brillouin sensing. <i>Optics Letters</i> , 2002, 27, 288.	3.3	13
136	Shape Reconstruction of 2-D Buried Objects Under a Kirchhoff Approximation. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2004, 1, 118-121.	3.1	13
137	Two different approaches for georadar data processing: A case study in archaeological prospecting. <i>Journal of Applied Geophysics</i> , 2008, 64, 1-13.	2.1	13
138	3D Imaging of Buried Dielectric Targets with a Tomographic Microwave Approach Applied to GPR Synthetic Data. <i>International Journal of Antennas and Propagation</i> , 2013, 2013, 1-10.	1.2	13
139	On the Reconstruction Capabilities of Beamforming and a Microwave Tomographic Approach. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 2369-2373.	3.1	13
140	On the singular spectrum of radiation operators in the non-reactive zone: the case of strip sources. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 025605.	2.2	13
141	Performance Analysis of Incoherent RF Tomography Using Wireless Sensor Networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 2722-2732.	6.3	13
142	Small-UAV Radar Imaging System Performance with GPS and CDGPS Based Motion Compensation. <i>Remote Sensing</i> , 2020, 12, 3463.	4.0	13
143	Experimental Validation of a Simple System for Through-the-Wall Inverse Scattering. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2011, 8, 258-262.	3.1	12
144	A Feasibility Study for Life Signs Monitoring via a Continuous-Wave Radar. <i>International Journal of Antennas and Propagation</i> , 2012, 2012, 1-5.	1.2	12

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145	Design and Validation of a Multimode Multifrequency VHF/UHF Airborne Radar. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 1260-1264.	3.1	12
146	A Comparison between Drifter and X-Band Wave Radar for Sea Surface Current Estimation. <i>Remote Sensing</i> , 2016, 8, 695.	4.0	12
147	Exploitation of Ubiquitous Wi-Fi Devices as Building Blocks for Improvised Motion Detection Systems. <i>Sensors</i> , 2016, 16, 307.	3.8	12
148	Two-Dimensional Linear Inversion of GPR Data with a Shifting Zoom along the Observation Line. <i>Remote Sensing</i> , 2017, 9, 980.	4.0	12
149	The Mutual Interaction Between the Reconfigurable Transmitting and Receiving Antennas in Ground Penetrating Radar Surveys. <i>Journal of Electromagnetic Waves and Applications</i> , 2009, 23, 1919-1928.	1.6	11
150	GPR microwave tomography for diagnostic analysis of archaeological sites: the case of a highway construction in Pontecagnano (Southern Italy). <i>Archaeological Prospection</i> , 2009, 16, 203-217.	2.2	11
151	Understanding target-like signals in coastal altimetry: Experimentation of a tomographic imaging technique. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	11
152	Ground penetrating radar and microwave tomography for the safety management of a cultural heritage site: Miletos Ilyas Bey Mosque (Turkey). <i>Journal of Geophysics and Engineering</i> , 2013, 10, 064007.	1.4	11
153	Tomographic airborne ground penetrating radar imaging: Achievable spatial resolution and on-field assessment. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2014, 92, 69-78.	11.1	11
154	GPR and ERT Investigations in Urban Areas: the Case-Study of Matera (Southern Italy). <i>Remote Sensing</i> , 2020, 12, 1879.	4.0	11
155	Multilines Imaging Approach for Mini-UAV Radar Imaging System. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	11
156	Experimental validation of a PO-based shape reconstruction algorithm. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 2093-2099.	6.3	10
157	SAR tomography for scene elevation and deformation reconstruction: Algorithms and potentialities. , 2008, , .		10
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159	Estimation of Soil Permittivity in Presence of Antenna-Soil Interactions. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 805-812.	4.9	10
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