Martina T Bevacqua

List of Publications by Year
in descending order

48 papers	626 citations	516681 16 h-index	580810 25 g-index
48 all docs	48 docs citations	48 times ranked	425 citing authors

#	Article	IF	Citations
1	Application of Field Intensity Shaping Paradigm in a Biological Scenario for MRI Shimming. , 2022, , .		0
2	Application of Supervised Descent Method to MRI Electrical Properties Tomography. , 2022, , .		1
3	Some Improvements to Field Intensity Shaping for Biomedical Applications: Preliminary results. , 2022, , .		0
4	Exploiting the NIE model for the inverse obstacle scattering problem in case of strong or metallic scatterers. , 2022, , .		0
5	Performance Analysis of Tomographic Methods Against Experimental Contactless Multistatic Ground Penetrating Radar. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 1171-1183.	4.9	28
6	Quantitative Non-Linear Inverse Scattering: A Wealth of Possibilities Through Smart Rewritings of the Basic Equations. IEEE Open Journal of Antennas and Propagation, 2021, 2, 335-348.	3.7	14
7	A Simple Procedure to Design Virtual Experiments for Microwave Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2021, 69, 8652-8663.	5.1	4
8	An Efficient Far-Field Wireless Power Transfer via Field Intensity Shaping Techniques. Electronics (Switzerland), 2021, 10, 1609.	3.1	5
9	A new hybrid YO-NIE model for nonlinear inverse scattering problems. , 2021, , .		0
10	An Effective Rewriting of the Inverse Scattering Equations via Green's Function Decomposition. IEEE Transactions on Antennas and Propagation, 2021, 69, 4883-4893.	5.1	11
11	Millimeter-Waves Breast Cancer Imaging via Inverse Scattering Techniques. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 246-253.	3.4	33
12	On the Optimal Matching Medium and the Working Frequency in Deep Pelvic Hyperthermia. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2021, 5, 223-230.	3.4	3
13	Tackling Nonlinearity in Inverse Scattering by Suitable Rewritings of the Basic Equations: Recent Results and Possible Developments. , 2021, , .		1
14	Inverse Scattering by means of a New Rewriting of the Integral Equations. , 2020, , .		0
15	Qualitative Imaging of Experimental Multistatic Ground Penetrating Radar Data. , 2020, , .		1
16	Potentialities of Inverse Scattering Techniques for Breast Cancer Imaging at Millimeter-Waves Frequencies. , 2020, , .		3
17	Physical Insight Unveils New Imaging Capabilities of Orthogonality Sampling Method. IEEE Transactions on Antennas and Propagation, 2020, 68, 4014-4021.	5.1	31
18	The Linear Sampling Method as a Tool for "Blind" Field Intensity Shaping. IEEE Transactions on Antennas and Propagation, 2020, 68, 3154-3162.	5.1	2

#	Article	IF	Citations
19	A Novel Method to Field Intensity Shaping into (Partially) Unknown Scenarios. , 2020, , .		0
20	Spatial Prior for Quantitative Breast Cancer Microwave Imaging: a Comparison Between Non-Iterative Eigenfunction-Based Inversion and Sampling Methods. , 2020, , .		0
21	The Tomographic Approach to Ground-Penetrating Radar for Underground Exploration and Monitoring: A More User-Friendly and Unconventional Method for Subsurface Investigation. IEEE Signal Processing Magazine, 2019, 36, 62-73.	5.6	21
22	Field Focusing for Energy Harvesting Applications in Smart RFID Tag. , 2019, , .		0
23	Qualitative Methods for the Inverse Obstacle Problem: A Comparison on Experimental Data. Journal of Imaging, 2019, 5, 47.	3.0	10
24	A METHOD FOR EFFECTIVE PERMITTIVITY AND CONDUCTIVITY MAPPING OF BIOLOGICAL SCENARIOS VIA SEGMENTED CONTRAST SOURCE INVERSION. Progress in Electromagnetics Research, 2019, 164, 1-15.	4.4	36
25	Noncooperative Localization and Tracking Through the Factorization Method. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1205-1209.	3.1	4
26	Electrical Properties Mapping via Segmented and Phaseless Contrast Source Inversion. , 2019, , .		0
27	Joint Sparsity and Inverse Source for Three-dimensional Shape Estimation of Unknown Targets. , 2019, , .		0
28	Multiresolution Virtual Experiments for Microwave Imaging of Complex Scenarios. Electronics (Switzerland), 2019, 8, 153.	3.1	5
29	On Spectral Content of Radiating Components of Electromagnetic Sources. , 2019, , .		1
30	A convenient rewriting to the 2D inverse scattering problem based on the reduced scattered field. , 2019, , .		1
31	A method for quantitative imaging of electrical properties of human tissues from only amplitude electromagnetic data. Inverse Problems, 2019, 35, 025006.	2.0	39
32	Design of Artificial-Material-Based Antennas Using Inverse Scattering Techniques. IEEE Transactions on Antennas and Propagation, 2018, 66, 7076-7090.	5.1	34
33	3-D Field Intensity Shaping via Optimized Multi-Target Time Reversal. IEEE Transactions on Antennas and Propagation, 2018, 66, 4380-4385.	5.1	33
34	Boundary Indicator for Aspect Limited Sensing of Hidden Dielectric Objects. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 838-842.	3.1	29
35	Inverse source and compressive sensing for qualitative reconstruction. , 2017, , .		0
36	Non-Linear Inverse Scattering via Sparsity Regularized Contrast Source Inversion. IEEE Transactions on Computational Imaging, 2017, 3, 296-304.	4.4	33

#	Article	IF	Citations
37	Microwave Imaging via Distorted Iterated Virtual Experiments. IEEE Transactions on Antennas and Propagation, 2017, 65, 829-838.	5.1	48
38	Microwave imaging of non-weak targets in stratified media via virtual experiments and compressive sensing. , 2017, , .		0
39	Biomedical imaging via wavelet-based regularization and distorted iterated virtual experiments. , 2017, , .		3
40	A Novel Approach for Qualitative Imaging of Buried PEC Scatterers. Telkomnika (Telecommunication) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	0
41	Exploiting sparsity and field conditioning in subsurface microwave imaging of nonweak buried targets. Radio Science, 2016, 51, 301-310.	1.6	20
42	A Compressive Sensing Approach for 3D Breast Cancer Microwave Imaging With Magnetic Nanoparticles as Contrast Agent. IEEE Transactions on Medical Imaging, 2016, 35, 665-673.	8.9	53
43	Improved TV-CS Approaches for Inverse Scattering Problem. Scientific World Journal, The, 2015, 2015, 1-9.	2.1	5
44	Exploiting virtual experiments for the solution of inverse scattering problem. , 2015, , .		1
45	Inverse Scattering Via Virtual Experiments and Contrast Source Regularization. IEEE Transactions on Antennas and Propagation, 2015, 63, 1669-1677.	5.1	52
46	An Algebraic Solution Method for Nonlinear Inverse Scattering. IEEE Transactions on Antennas and Propagation, 2015, 63, 601-610.	5.1	27
47	Microwave Imaging of Nonweak Targets via Compressive Sensing and Virtual Experiments. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1035-1038.	4.0	34
48	Modeling and Processing L-Band Ground Based Radar Data for Landslides Early Warning. Journal of Electrical and Computer Engineering, 2013, 2013, 1-6.	0.9	0