

Colin Gilmore

List of Publications by Year in descending order

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28
papers

725
citations

759233

12
h-index

839539

18
g-index

28
all docs

28
docs citations

28
times ranked

375
citing authors

#	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	Finite-element contrast source inversion method for microwave imaging. Inverse Problems, 2010, 26, 115010.	2.0	107
3	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
4	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
5	Microwave Imaging of Human Forearms: Pilot Study and Image Enhancement. International Journal of Biomedical Imaging, 2013, 2013, 1-17.	3.9	49
6	Grain bin monitoring via electromagnetic imaging. Computers and Electronics in Agriculture, 2015, 119, 133-141.	7.7	43
7	Enhancement of microwave tomography through the use of electrically conducting enclosures. Inverse Problems, 2008, 24, 035008.	2.0	40
8	Industrial scale electromagnetic grain bin monitoring. Computers and Electronics in Agriculture, 2017, 136, 210-220.	7.7	38
9	Innovations in Electromagnetic Imaging Technology: The Stored-Grain-Monitoring Case. IEEE Antennas and Propagation Magazine, 2020, 62, 33-42.	1.4	32
10	Detection and continuous monitoring of localised high-moisture regions in a full-scale grain storage bin using electromagnetic imaging. Biosystems Engineering, 2017, 163, 37-49.	4.3	26
11	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
12	Phaseless Parametric Inversion for System Calibration and Obtaining Prior Information. IEEE Access, 2019, 7, 128735-128745.	4.2	17
13	Three dimensional radio-frequency electromagnetic imaging of an in-bin grain conditioning process. Computers and Electronics in Agriculture, 2019, 167, 105059.	7.7	11
14	Stored Grain Inventory Management Using Neural-Network-Based Parametric Electromagnetic Inversion. IEEE Access, 2020, 8, 207182-207192.	4.2	10
15	A Machine Learning Workflow for Tumour Detection in Breasts Using 3D Microwave Imaging. Electronics (Switzerland), 2021, 10, 674.	3.1	9
16	Toward the Detection of Oil Spills in Newly Formed Sea Ice Using C-Band Multipolarization Radar. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	8
17	Enhanced Detection of Magnetic Nanoparticles Using a Novel Microwave Ferromagnetic Resonance Imaging System. IEEE Transactions on Biomedical Engineering, 2021, 68, 936-947.	4.2	6
18	Biomedical microwave inversion in conducting cylinders of arbitrary shapes. , 2009, , .		5

#	ARTICLE	IF	CITATIONS
19	Imaging and Calibration of Electromagnetic Inversion Data With a Single Data Set. IEEE Open Journal of Antennas and Propagation, 2022, 3, 12-23.	3.7	4
20	The Implementation of Neural Networks for Phaseless Parametric Inversion. , 2020, , .		3
21	Single Data Set Calibration and Imaging with Uncooperative Electromagnetic Inversion Systems. , 2021, , .		2
22	Ferrite Loaded Shielded Half Loop Antenna for Electromagnetic Imaging inside Metallic Chambers. , 2021, , .		2
23	An ultra-wideband microwave tomography system: Preliminary results. , 2009, 2009, 2288-91.		1
24	Towards Calibration of Uncooperative Electromagnetic Imaging Systems using CycleGANs. , 2021, , .		1
25	Using Lossy Greenâ€™s Functions to Improve Back-Propagated Reconstructions of Material Interfaces inside Resonant Enclosures. , 2021, , .		1
26	A Simple Approach to Modifying the Contrast Basis in Contrast Source Inversion. , 2022, , .		1
27	A Machine Learning Method for Characterization of Complex Grain-Air Interfaces in Grain Storage Bins. , 2021, , .		0
28	Recovery of Prior Information for Breast Microwave Imaging Using Neural Networks. , 2021, , .		0