

Davorin Ambrus

List of Publications by Year in descending order

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28
papers

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citations

1163117

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28
times ranked

215
citing authors

#	ARTICLE	IF	CITATIONS
1	Close-Range Electromagnetic Tracking of Pulse Induction Search Coils for Subsurface Sensing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	12
2	Comparative Study of Planar Coil EMI Sensors for Inversion-Based Detection of Buried Objects. IEEE Sensors Journal, 2020, 20, 968-979.	4.7	16
3	A Portable Planar Coil Array for Frequency-Domain Inductive Sensing of Metallic Objects. , 2020, , .		2
4	Innovating on top of I&M fundamentals for safer humanitarian demining. IEEE Instrumentation and Measurement Magazine, 2020, 23, 35-41.	1.6	4
5	Towards high frequency electromagnetic induction sensing of soil apparent electrical conductivity. , 2020, , .		1
6	Digital Eddy Current Probe for Tube Nondestructive Testing Using Binary Excitation. , 2019, , .		0
7	Eddy current probe for inspection of steel tubes based on rotating field principle. , 2018, , .		1
8	UWB localization for discrimination-enabled metal detectors in humanitarian demining. , 2017, , .		5
9	Characterization of buried targets from planar electromagnetic induction sensor data in a moving reference frame. Proceedings of SPIE, 2017, , .	0.8	1
10	On feasibility of a rotating field eddy current sensor for nondestructive testing of ferromagnetic oil-well casings. Proceedings of SPIE, 2017, , .	0.8	1
11	Automatic compensation of primary field coupling for a frequency-domain electromagnetic induction sensor. , 2017, , .		8
12	Sensitivity profile of compact inductive sensor for apparent electrical conductivity of topsoil. , 2017, , .		1
13	Analytical modeling of rotating field eddy current sensor for nondestructive testing of tubes. , 2016, , .		3
14	Robust Estimation of Metal Target Shape Using Time-Domain Electromagnetic Induction Data. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 795-807.	4.7	32
15	Computation of the Eigenvalues for Bounded Domain Eddy-Current Models With Coupled Regions. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	11
16	Model-based target classification using spatial and temporal features of metal detector response. , 2015, , .		4
17	Stochastic inversion of two-layer soil model parameters from electromagnetic induction data. , 2015, , .		0
18	Simple linear inversion of soil electromagnetic properties from analytical model of electromagnetic induction sensor. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	Analytical modelling of soil effects on electromagnetic induction sensor for humanitarian demining. Journal of Physics: Conference Series, 2013, 450, 012052.	0.4	4
20	Active induction balance method for metal detector sensing head utilizing transmitter-bucking and dual current source. Journal of Physics: Conference Series, 2013, 450, 012047.	0.4	11
21	Compensation of Coil Radial Offset in Single-Coil Measurement of Metal Tube Properties. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	1
22	Marine control and monitoring systems at Brodarski Institute. Proceedings ELMAR, 2007, , .	0.0	1
23	Validation of a Coil Impedance Model for Simultaneous Measurement of Electromagnetic Properties and Inner Diameter of a Conductive Tube. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 337-342.	4.7	28
24	A Digital Tachometer for High-Temperature Telemetry Utilizing Thermally Up-rated Commercial Electronic Components. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1361-1365.	4.7	8
25	Pulsed Eddy-Current Nondestructive Testing of Ferromagnetic Tubes. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1289-1294.	4.7	97
26	Transducer interface for multichannel wired telemetry in high temperature environment. , 0, , .		2
27	Validation of a coil impedance model for simultaneous measurement of electromagnetic properties and inner diameter of a conductive tube. , 0, , .		1
28	Microwave permittivity measurement of polymers by deposition on a coplanar wave guide. , 0, , .		2