

# Darko Vasic

## List of Publications by Year in descending order

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46  
papers

356  
citations

933447

10  
h-index

839539

18  
g-index

46  
all docs

46  
docs citations

46  
times ranked

257  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed Eddy-Current Nondestructive Testing of Ferromagnetic Tubes. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 1289-1294.	4.7	97
2	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
3	Analytical modelling in low-frequency electromagnetic measurements of steel casing properties. NDT and E International, 2007, 40, 103-111.	3.7	29
4	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
5	A system identification approach to the modelling of pulsed eddy-current systems. NDT and E International, 2005, 38, 107-111.	3.7	18
6	Comparative Study of Planar Coil EMI Sensors for Inversion-Based Detection of Buried Objects. IEEE Sensors Journal, 2020, 20, 968-979.	4.7	16
7	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
8	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
9	Computation of the Eigenvalues for Bounded Domain Eddy-Current Models With Coupled Regions. IEEE Transactions on Magnetics, 2016, 52, 1-10.	2.1	11
10	Application of Stochastic Inversion to Casing Effect Correction in Through Casing Induction Logging. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1458-1465.	4.7	10
11	Scaled Experimental Verification of Single-Well Induction Conductivity Measurement Through Nonmagnetic Casing. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1199-1206.	4.7	9
12	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
13	Spectroscopic identification of anti-personnel mine surrogates from planar sensor measurements. , 2016, , .		8
14	Automatic compensation of primary field coupling for a frequency-domain electromagnetic induction sensor. , 2017, , .		8
15	Model of Magnetically Shielded Ferrite-Cored Eddy Current Sensor. Sensors, 2022, 22, 326.	3.8	6
16	UWB localization for discrimination-enabled metal detectors in humanitarian demining. , 2017, , .		5
17	A Framework for Low Data Rate, Highly Distributed Measurement Systems. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	4
18	Lumped representation in inductive measurement of metal casing properties. , 2010, , .		4

#	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	Model-based target classification using spatial and temporal features of metal detector response. , 2015, , .		4
21	Innovating on top of I&M fundamentals for safer humanitarian demining. IEEE Instrumentation and Measurement Magazine, 2020, 23, 35-41.	1.6	4
22	Noise Analysis of the Pulse-Width Modulator for Quasi-Digital Sensors. , 2008, , .		3
23	Analytical modeling of rotating field eddy current sensor for nondestructive testing of tubes. , 2016, , .		3
24	Microwave permittivity measurement of polymers by deposition on a coplanar wave guide. , 0, , .		2
25	A Sensor Signal Digitalization Module for High-Temperature Environment Applications. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	2
26	Simple linear inversion of soil electromagnetic properties from analytical model of electromagnetic induction sensor. , 2014, , .		2
27	Estimating directional magnetic polarizabilities of metallic objects using planar time-domain electromagnetic induction sensor. , 2016, , .		2
28	A Portable Planar Coil Array for Frequency-Domain Inductive Sensing of Metallic Objects. , 2020, , .		2
29	Validation of a coil impedance model for simultaneous measurement of electromagnetic properties and inner diameter of a conductive tube. , 0, , .		1
30	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
31	On Feasibility of Inductive Conductivity Measurement of Formation Surrounding a Metal Casing. , 2008, , .		1
32	Stochastic inversion approach to measurement of tube properties using remote field technique. , 2011, , .		1
33	Induction conductivity measurement of surrounding low-conductive medium from copper tube &#x2014; Experimental verification. , 2012, , .		1
34	Characterization of buried targets from planar electromagnetic induction sensor data in a moving reference frame. Proceedings of SPIE, 2017, , .	0.8	1
35	On feasibility of a rotating field eddy current sensor for nondestructive testing of ferromagnetic oil-well casings. Proceedings of SPIE, 2017, , .	0.8	1
36	Sensitivity profile of compact inductive sensor for apparent electrical conductivity of topsoil. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
37	Eddy current probe for inspection of steel tubes based on rotating field principle. , 2018, , .		1
38	Towards high frequency electromagnetic induction sensing of soil apparent electrical conductivity. , 2020, , .		1
39	Eddy Current Inversion of Lift-off, Conductivity and Permeability Relaxation. , 2021, , .		1
40	Effectiveness of Electrostatic Shielding in High-Frequency Electromagnetic Induction Soil Sensing. Sensors, 2022, 22, 3000.	3.8	1
41	Practical examples used information and communication technologies in study of "Signals and Systems" . , 0, , .		0
42	A Model Based Design of Low-Frequency Electromagnetic Systems for Metal Tube Inspection. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0
43	Stochastic inversion of two-layer soil model parameters from electromagnetic induction data. , 2015, , .		0
44	Digital Eddy Current Probe for Tube Nondestructive Testing Using Binary Excitation. , 2019, , .		0
45	Special Issue for I <sup>2</sup> MTC 2020. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-3.	4.7	0
46	A Model Based Design of Low-Frequency Electromagnetic Systems for Metal Tube Inspection. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2006, , .	0.0	0