SÃ¡ndor Bilicz

List of Publications by Year in descending order

36 papers	217 citations
1040056 9 h-index	1058476 14 g-index
36 all docs	36 docs citations
36 times ranked	170 citing authors

#	ARTICLE	IF	CITATIONS
1	Kriging-based generation of optimal databases as forward and inverse surrogate models. Inverse Problems, 2010, 26, 074012.	2.0	26
2	Solution of Inverse Problems in Nondestructive Testing by a Kriging-Based Surrogate Model. IEEE Transactions on Magnetics, 2012, 48, 495-498.	2.1	26
3	Modeling of Resonant Wireless Power Transfer With Integral Formulations in Heterogeneous Media. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	15
4	Finite-Element-Integral Equation Full-Wave Multisolver for Efficient Modeling of Resonant Wireless Power Transfer. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	14
5	Efficient Perturbation Method for Computing Two-Port Parameter Changes Due to Foreign Objects for WPT Systems. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	13
6	Loss Computation Method for Litz Cables With Emphasis on Bundle-Level Skin Effect. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	12
7	Characterization of a 3D defect using the expected improvement algorithm. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 851-864.	0.9	11
8	Kriging for Eddy-Current Testing Problems. IEEE Transactions on Magnetics, 2010, 46, 3165-3168.	2.1	11
9	The Radar Cross Section of small propellers on Unmanned Aerial Vehicles. , 2016, , .		9
10	Sparse Grid Surrogate Models for Electromagnetic Problems With Many Parameters. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
11	Subdomain Perturbation Finite-Element Method for Quasi-static Darwin Approximation. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	9
12	High-frequency modelling of coils by integral formulations. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1447-1459.	0.9	8
13	Electromagnetic Simulation of Rotating Propeller Blades for Radar Detection Purposes. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	8
14	Modeling of Dense Windings for Resonant Wireless Power Transfer by an Integral Equation Formulation. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	7
15	Integral Equation Formulations for Modeling Wireless Power Transfer Systems in Close Proximity to Foreign Objects. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	5
16	Uncertainty quantification of wireless power transfer systems. , 2016, , .		4
17	Antenna Array Pattern Synthesis Using an Iterative Method. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	4
18	Sensitivity analysis of inverse problems in EM non€destructive testing. IET Science, Measurement and Technology, 2020, 14, 543-551.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Approximate and Proper Electromagnetic Modelling in Moving Conductors. Periodica Polytechnica Electrical Engineering and Computer Science, 2015, 59, 43-47.	1.0	3
20	Metamodel-Based Nested Sampling for Model Selection in Eddy-Current Testing. IEEE Transactions on Magnetics, 2017, 53, 1-12.	2.1	3
21	Magnetic flux simulation for the inspection of local thinning of ferromagnetic plates. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 1377-1384.	0.6	3
22	Nonlocal impedance boundary conditions in modeling WPT coils for all frequencies. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 9-18.	0.6	2
23	Bistatic RCS calculation for propellers at near-resonant frequencies. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 19-26.	0.6	2
24	Thin-Wire Integral Equation Formulation With Quasistatic Darwin Approximation. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	2
25	Magnetic Investigation of Cladded Nuclear Reactor Blocks. Materials, 2022, 15, 1425.	2.9	2
26	Global Sensitivity Analysis Using a Kriging Metamodel for EM Design Problems With Functional Outputs. IEEE Transactions on Magnetics, 2022, 58, 1-4.	2.1	2
27	Combination of Maximin and Kriging Prediction Methods for Eddy-Current Testing Database Generation. Journal of Physics: Conference Series, 2010, 255, 012003.	0.4	1
28	An integral equation formulation with global series expansion for resonant wireless power transfer. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1474-1487.	0.9	1
29	A Full-Wave Integral Equation Method Including Accurate Wide-Frequency-Band Wire Models for WPT Coils. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	1
30	Eddy-current testing with the Expected Improvement optimization algorithm. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1750-1755.	0.4	0
31	Calculation of eddy-current probe signal for a 3D defect using global series expansion. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1512-1524.	0.9	0
32	Modeling of dense windings for resonant wireless power transfer by an integral equation formulation. , 2016, , .		0
33	Homogenized 3-D FEM Model for Simulation of HTS Coils. , 2019, , .		0
34	Polynomial chaos within the frame of non-destructive testing. , 2021, , .		0
35	Sensitivity Analysis for the Inverse Problems of Electromagnetic Nondestructive Evaluation. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	0
36	Electromagnetic modeling of coils made of twisted litz wire by combining finite element simulation and circuit laws. International Journal of Applied Electromagnetics and Mechanics, 2022, , 1-11.	0.6	0