

Sãndor Bilicz

List of Publications by Year in descending order

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all docs

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic Investigation of Cladded Nuclear Reactor Blocks. <i>Materials</i> , 2022, 15, 1425.	2.9	2
2	Global Sensitivity Analysis Using a Kriging Metamodel for EM Design Problems With Functional Outputs. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-4.	2.1	2
3	Electromagnetic modeling of coils made of twisted litz wire by combining finite element simulation and circuit laws. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2022, , 1-11.	0.6	0
4	Thin-Wire Integral Equation Formulation With Quasistatic Darwin Approximation. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-4.	2.1	2
5	Polynomial chaos within the frame of non-destructive testing. , 2021, , .		0
6	Subdomain Perturbation Finite-Element Method for Quasi-static Darwin Approximation. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-4.	2.1	9
7	Antenna Array Pattern Synthesis Using an Iterative Method. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-4.	2.1	4
8	Sensitivity analysis of inverse problems in EM non-destructive testing. <i>IET Science, Measurement and Technology</i> , 2020, 14, 543-551.	1.6	4
9	Sensitivity Analysis for the Inverse Problems of Electromagnetic Nondestructive Evaluation. <i>Studies in Applied Electromagnetics and Mechanics</i> , 2020, , .	0.2	0
10	Loss Computation Method for Litz Cables With Emphasis on Bundle-Level Skin Effect. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	2.1	12
11	Integral Equation Formulations for Modeling Wireless Power Transfer Systems in Close Proximity to Foreign Objects. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	2.1	5
12	Nonlocal impedance boundary conditions in modeling WPT coils for all frequencies. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 59, 9-18.	0.6	2
13	Homogenized 3-D FEM Model for Simulation of HTS Coils. , 2019, , .		0
14	Magnetic flux simulation for the inspection of local thinning of ferromagnetic plates. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 59, 1377-1384.	0.6	3
15	Bistatic RCS calculation for propellers at near-resonant frequencies. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2019, 59, 19-26.	0.6	2
16	Efficient Perturbation Method for Computing Two-Port Parameter Changes Due to Foreign Objects for WPT Systems. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	13
17	Electromagnetic Simulation of Rotating Propeller Blades for Radar Detection Purposes. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	8
18	A Full-Wave Integral Equation Method Including Accurate Wide-Frequency-Band Wire Models for WPT Coils. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-4.	2.1	1

#	ARTICLE	IF	CITATIONS
19	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
20	Metamodel-Based Nested Sampling for Model Selection in Eddy-Current Testing. IEEE Transactions on Magnetics, 2017, 53, 1-12.	2.1	3
21	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
22	Modeling of dense windings for resonant wireless power transfer by an integral equation formulation. , 2016, , .		0
23	Uncertainty quantification of wireless power transfer systems. , 2016, , .		4
24	The Radar Cross Section of small propellers on Unmanned Aerial Vehicles. , 2016, , .		9
25	Modeling of Resonant Wireless Power Transfer With Integral Formulations in Heterogeneous Media. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	15
26	Sparse Grid Surrogate Models for Electromagnetic Problems With Many Parameters. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	9
27	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
28	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
29	Approximate and Proper Electromagnetic Modelling in Moving Conductors. Periodica Polytechnica Electrical Engineering and Computer Science, 2015, 59, 43-47.	1.0	3
30	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
31	Solution of Inverse Problems in Nondestructive Testing by a Kriging-Based Surrogate Model. IEEE Transactions on Magnetics, 2012, 48, 495-498.	2.1	26
32	Combination of Maximin and Kriging Prediction Methods for Eddy-Current Testing Database Generation. Journal of Physics: Conference Series, 2010, 255, 012003.	0.4	1
33	Kriging for Eddy-Current Testing Problems. IEEE Transactions on Magnetics, 2010, 46, 3165-3168.	2.1	11
34	Kriging-based generation of optimal databases as forward and inverse surrogate models. Inverse Problems, 2010, 26, 074012.	2.0	26
35	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
36	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