

Sami Barmada

List of Publications by Year in descending order

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89
papers

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91
times ranked

578
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless Power Transfer with Data Transfer Capability for Electric and Hybrid Vehicles: State of the Art and Future Trends. , 2021, , .		0
2	Fault Prediction and Early-Detection in Large PV Power Plants Based on Self-Organizing Maps. Sensors, 2021, 21, 1687.	2.1	14
3	A Deep Learning Surrogate Model for Topology Optimization. IEEE Transactions on Magnetics, 2021, 57, 1-4.	1.2	19
4	A Regularized Procedure to Generate a Deep Learning Model for Topology Optimization of Electromagnetic Devices. Electronics (Switzerland), 2021, 10, 2185.	1.8	11
5	Wireless Power Transfer with Data Transfer Capability for Electric and Hybrid Vehicles: State of the Art and Future Trends. , 2021, , .		0
6	An Accurate Equivalent Circuit Model of Metasurface-Based Wireless Power Transfer Systems. IEEE Open Journal of Antennas and Propagation, 2020, 1, 549-559.	2.5	19
7	Harmonic distortion considerations for an integrated WPT-PLC system. Wireless Power Transfer, 2020, 7, 33-41.	0.9	1
8	Deep Learning and Reduced Models for Fast Optimization in Electromagnetics. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	34
9	A Spiral Resonators Passive Array for Inductive Wireless Power Transfer Applications With Low Exposure to Near Electric Field. IEEE Transactions on Electromagnetic Compatibility, 2020, 62, 1312-1322.	1.4	24
10	Short-Term Forecast of Emergency Departments Visits Through Calendar Selection. Contributions To Statistics, 2020, , 415-426.	0.2	0
11	Electric Near Field Reduction in Wireless Power Transfer Systems. , 2020, , .		0
12	Design and Realization of a Multiple Access Wireless Power Transfer System for Optimal Power Line Communication Data Transfer. Energies, 2019, 12, 988.	1.6	13
13	Transmission Channel Analysis for Broadband Communication over Multiconductor UIC Cables Onboard Regional Trains. Energies, 2019, 12, 497.	1.6	1
14	Wireless Power Transfer and Data Communication Cognitive Radio through Two-Coil Inductive Channel. , 2019, , .		0
15	Power Regulation in Inductive Power Transfer via Power Line Communication. , 2019, , .		1
16	Fuzzy integral-based multi-sensor fusion for arc detection in the pantograph-catenary system. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 159-170.	1.3	26
17	Analysis of two/four coils WPT systems for embedded PLC communications. , 2018, , .		0
18	Impulsive Noise Characterization in Narrowband Power Line Communication. Energies, 2018, 11, 863.	1.6	16

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19	Indirect monitoring and early detection of faults in trains' motors. IET Electrical Systems in Transportation, 2018, 8, 86-94.	1.5	4
20	A multi-objective optimization algorithm based on self-organizing maps applied to wireless power transfer systems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2145.	1.2	6
21	Electromechanical analysis of an electrodynamic bearing. , 2017, , .		1
22	Electromagnetic analysis of coils for wireless power transfer. , 2017, , .		0
23	Analysis of noise in in-home channels for narrowband power line communications. , 2017, , .		2
24	Design and experimental characterization of a combined WPT-PLC system. Wireless Power Transfer, 2017, 4, 160-170.	0.9	11
25	Electromechanical analysis of a new PMs bearing. , 2016, , .		0
26	Combining WPT and PLC: A review. , 2016, , .		0
27	Experimental validation of a hybrid Wireless Power Transfer - Power Line Communication system. , 2016, , .		8
28	Simulations and experiments for EMC compliance in automotive environment. , 2016, , .		2
29	Clustering techniques applied to a high-speed train pantograph-catenary subsystem for electric arc detection and classification. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 85-96.	1.3	10
30	An evolutionary algorithm for global optimization based on self-organizing maps. Engineering Optimization, 2016, 48, 1740-1758.	1.5	6
31	Optimization of a magnetically coupled resonators system for Power Line Communication integration. , 2015, , .		10
32	The Leaf Community: Control of an AC microgrid. , 2015, , .		0
33	Arc detection in pantograph-catenary systems by the use of support vector machines-based classification. IET Electrical Systems in Transportation, 2014, 4, 45-52.	1.5	45
34	Power line communication integrated in a Wireless Power Transfer system: A feasibility study. , 2014, , .		14
35	PLC systems for electric vehicles and Smart Grid applications. , 2013, , .		27
36	Channel evaluation for power line communication in plug-in electric vehicles. IET Electrical Systems in Transportation, 2012, 2, 195.	1.5	8

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37	Multi-resolution based sensitivity analysis of complex non-linear circuits. IET Circuits, Devices and Systems, 2012, 6, 176.	0.9	18
38	Global optimization algorithm based on self-organizing centroids. , 2012, , .		5
39	Analysis of time-varying properties of Power Line Communication Channels in ships. , 2011, , .		2
40	A Wavelet Based Method for the Analysis of Impulsive Noise Due to Switch Commutations in Power Line Communication (PLC) Systems. IEEE Transactions on Smart Grid, 2011, 2, 92-101.	6.2	28
41	A delta-epsilon method technique in the wavelet domain to determine statistical quantities of the response of electromagnetic devices with uncertain parameters. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2011, 24, 357-374.	1.2	2
42	Analysis of Power-Line Communication Channels in Ships. IEEE Transactions on Vehicular Technology, 2010, 59, 3161-3170.	3.9	45
43	On the time invariance of PLC channels in complex power networks. , 2010, , .		5
44	Analysis of Equivalent Circuit Sensitivity on Extraction Procedure. Electromagnetics, 2010, 30, 324-346.	0.3	0
45	Power Line Communication in a full electric vehicle: Measurements, modelling and analysis. , 2010, , .		26
46	Didactic Considerations on Magnetic Circuits Excited by Permanent Magnets. IEEE Transactions on Education, 2009, 52, 532-537.	2.0	3
47	Response Bounds of Indoor Power-Line Communication Systems With Cyclostationary Loads. IEEE Transactions on Power Delivery, 2009, 24, 596-603.	2.9	5
48	Modeling of Nonlinearly Loaded Microwave Devices by a Wavelet Convolution Operator-Based Formulation. Electromagnetics, 2009, 29, 31-52.	0.3	3
49	Time domain sensitivity of non linear circuits via wavelet transform. , 2008, , .		0
50	Design of a PLC system onboard trains: Selection and analysis of the PLC channel. , 2008, , .		16
51	Nonlinear decision feedback estimation for multicarrier power line communication. , 2008, , .		2
52	Blind Channel Estimation for Power-line Communications by a Kohonen Neural Network. , 2007, , .		12
53	Analysis of Power Lines Uncertain Parameter Influence on Power Line Communications. IEEE Transactions on Power Delivery, 2007, 22, 2163-2171.	2.9	18
54	Analysis of Integrated Circuit System s by An Innovative Wavelet-Based Scattering Matrix Approach. IEEE Transactions on Advanced Packaging, 2007, 30, 86-96.	1.7	17

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55	Improving the performance of the boundary element method with time-dependent fundamental solutions by the use of a wavelet expansion in the time domain. International Journal for Numerical Methods in Engineering, 2007, 71, 363-378.	1.5	6
56	Study of nonlinearly loaded microwave circuits by an innovative multiresolution time-frequency analysis. , 2007, , .		1
57	Innovative model for time-varying power line communication channel response evaluation. IEEE Journal on Selected Areas in Communications, 2006, 24, 1317-1326.	9.7	75
58	Comments on "Deficiencies in the way scattering parameters are Taught". IEEE Transactions on Education, 2006, 49, 176-178.	2.0	0
59	Wavelet-Based Time-Domain Solution of Multiconductor Transmission Lines With Skin and Proximity Effect. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 774-780.	1.4	15
60	Time domain surface impedance concept for low frequency electromagnetic problemsâ€”Part II: Application to transient skin and proximity effect problems in cylindrical conductors. IET Science, Measurement and Technology, 2005, 152, 207-216.	0.7	15
61	Influence of Parameters Uncertainties in Equivalent Circuit Modeling of 3D Electromagnetic Devices. Journal of Electromagnetic Waves and Applications, 2005, 19, 2049-2058.	1.0	0
62	Two-port equivalent of PCB discontinuities in the wavelet domain. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 907-918.	2.9	21
63	Simulation of high frequency signal transmission on power lines. , 2005, , .		1
64	Numerical simulation of a complete generator-rail launch system. IEEE Transactions on Magnetics, 2005, 41, 369-374.	1.2	19
65	Equivalence Theorem Boundary Conditions for FDTD Formulations. IEEE Transactions on Magnetics, 2004, 40, 1049-1052.	1.2	1
66	Analysis of the performance of a combined coil-rail launcher. IEEE Transactions on Magnetics, 2003, 39, 103-107.	1.2	23
67	Field analysis in tubular coilguns by wavelet transform. IEEE Transactions on Magnetics, 2003, 39, 120-124.	1.2	5
68	Analysis of a homopolar disk generator via equivalent network. IEEE Transactions on Magnetics, 2003, 39, 125-128.	1.2	5
69	Efficiency improvement of integral formulation via multiresolution analysis. IEEE Transactions on Magnetics, 2003, 39, 1417-1420.	1.2	0
70	Analysis of transmission lines with frequency-dependent parameters by wavelet-FFT method. IEEE Transactions on Magnetics, 2003, 39, 1602-1605.	1.2	2
71	New wavelet based approach for time domain simulations. IEEE Transactions on Antennas and Propagation, 2003, 51, 1590-1598.	3.1	1
72	Wavelet multiresolution analysis for monitoring the occurrence of arcing on overhead electrified railways. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2003, 217, 177-187.	1.3	26

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73	Algebraic solution of time-domain nonuniform transmission-line equations by 2-D wavelet transform. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 504-508.	0.1	5
74	Analysis of PCB Discontinuities Using FD-TD and Wavelets. , 2002, , .		1
75	Numerical solution of Maxwell's equations by wavelets on the interval and equivalence theorem. IEEE Transactions on Magnetics, 2002, 38, 381-384.	1.2	1
76	Force and torque evaluation in hybrid FEM-MOM formulations. IEEE Transactions on Magnetics, 2001, 37, 3108-3111.	1.2	10
77	Field-excited multiconductor transmission lines: a wavelet approach. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2001, 20, 380-394.	0.5	0
78	Space-time wavelet expansion iterative solution of non-uniform transmission lines with arbitrary loads. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2001, 14, 219-235.	1.2	1
79	Analysis of the performance of a multi-stage pulsed linear induction launcher. IEEE Transactions on Magnetics, 2001, 37, 111-115.	1.2	27
80	A general tool for circuit analysis based on wavelet transform. International Journal of Circuit Theory and Applications, 2000, 28, 461-480.	1.3	25
81	Hybrid FEM/MOM formulation for eddy current problems with moving conductors. IEEE Transactions on Magnetics, 2000, 36, 827-830.	1.2	7
82	Field analysis in axisymmetric actuators. IEEE Transactions on Magnetics, 2000, 36, 1906-1909.	1.2	11
83	Hybrid F.E.-wavelet method for nonlinear analysis of nonuniform MTL transients. IEEE Transactions on Magnetics, 2000, 36, 977-981.	1.2	5
84	Transient numerical solutions of nonuniform MTL equations with nonlinear loads by wavelet expansion in time or space domain. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1178-1190.	0.1	33
85	Solution of electromagnetic transients by wavelet expansion in the time domain. , 0, , .		0
86	Response Bounds Analysis for Transmission Lines Characterized by Uncertain Parameters. , 0, , .		0
87	Analysis of parameters' uncertainty effects on equivalent circuit macromodels. , 0, , .		0
88	A wavelet approach for the discrimination of buried objects. , 0, , .		0
89	Efficient method to treat parameters' uncertainties in complex circuits. , 0, , .		0