

Mauro Tucci

List of Publications by Year in descending order

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78
papers

1,025
citations

430874

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501196

28
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80
all docs

80
docs citations

80
times ranked

1007
citing authors

#	ARTICLE	IF	CITATIONS
1	Day-Ahead Hourly Forecasting of Power Generation From Photovoltaic Plants. IEEE Transactions on Sustainable Energy, 2018, 9, 831-842.	8.8	156
2	A filter based neuron model for adaptive incremental learning of self-organizing maps. Neurocomputing, 2011, 74, 1815-1822.	5.9	63
3	Analysis of Power-Line Communication Channels in Ships. IEEE Transactions on Vehicular Technology, 2010, 59, 3161-3170.	6.3	45
4	Arc detection in pantograph-catenary systems by the use of support vector machines-based classification. IET Electrical Systems in Transportation, 2014, 4, 45-52.	2.4	45
5	Prediction of the Italian electricity price for smart grid applications. Neurocomputing, 2015, 170, 286-295.	5.9	38
6	Deep Learning and Reduced Models for Fast Optimization in Electromagnetics. IEEE Transactions on Magnetics, 2020, 56, 1-4.	2.1	34
7	A New Passive Maglev System Based on Eddy Current Stabilization. IEEE Transactions on Magnetics, 2009, 45, 984-987.	2.1	29
8	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.	9.0	28
9	PLC systems for electric vehicles and Smart Grid applications. , 2013, , .		27
10	A Multi-Objective Method for Short-Term Load Forecasting in European Countries. IEEE Transactions on Power Systems, 2016, 31, 3537-3547.	6.5	27
11	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.	2.0	26
12	Comparison and clustering analysis of the daily electrical load in eight European countries. Electric Power Systems Research, 2016, 141, 114-123.	3.6	25
13	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.	2.2	24
14	Force Optimization of a Double-Sided Tubular Linear Induction Motor. IEEE Transactions on Magnetics, 2014, 50, 1-11.	2.1	23
15	Optimal Design of EMALS Based on a Double-Sided Tubular Linear Induction Motor. IEEE Transactions on Plasma Science, 2015, 43, 1326-1331.	1.3	22
16	Condition monitoring and predictive maintenance methodologies for hydropower plants equipment. Renewable Energy, 2021, 171, 246-253.	8.9	21
17	Cyclic Short-Time Varying Channel Estimation in OFDM Power-Line Communication. IEEE Transactions on Power Delivery, 2008, 23, 157-163.	4.3	19
18	A Deep Learning Surrogate Model for Topology Optimization. IEEE Transactions on Magnetics, 2021, 57, 1-4.	2.1	19

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19	Analysis of Power Lines Uncertain Parameter Influence on Power Line Communications. IEEE Transactions on Power Delivery, 2007, 22, 2163-2171.	4.3	18
20	Multi-resolution based sensitivity analysis of complex non-linear circuits. IET Circuits, Devices and Systems, 2012, 6, 176.	1.4	18
21	Power-line communications channel estimation and tracking by a competitive neural network. IEEE Transactions on Consumer Electronics, 2006, 52, 1213-1219.	3.6	17
22	Design of a PLC system onboard trains: Selection and analysis of the PLC channel. , 2008, , .		16
23	Impulsive Noise Characterization in Narrowband Power Line Communication. Energies, 2018, 11, 863.	3.1	16
24	Adaptive FIR Neural Model for Centroid Learning in Self-Organizing Maps. IEEE Transactions on Neural Networks, 2010, 21, 948-960.	4.2	15
25	Power line communication integrated in a Wireless Power Transfer system: A feasibility study. , 2014, , .		14
26	Fault Prediction and Early-Detection in Large PV Power Plants Based on Self-Organizing Maps. Sensors, 2021, 21, 1687.	3.8	14
27	Design and Realization of a Multiple Access Wireless Power Transfer System for Optimal Power Line Communication Data Transfer. Energies, 2019, 12, 988.	3.1	13
28	Blind Channel Estimation for Power-line Communications by a Kohonen Neural Network. , 2007, , .		12
29	Design and experimental characterization of a combined WPT"PLC system. Wireless Power Transfer, 2017, 4, 160-170.	1.1	11
30	A Regularized Procedure to Generate a Deep Learning Model for Topology Optimization of Electromagnetic Devices. Electronics (Switzerland), 2021, 10, 2185.	3.1	11
31	Optimization of a magnetically coupled resonators system for Power Line Communication integration. , 2015, , .		10
32	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.	2.0	10
33	Time-Invariant Characteristics of Naval Power-Line Channels. IEEE Transactions on Power Delivery, 2012, 27, 858-865.	4.3	9
34	Clustering analysis of the electrical load in european countries. , 2015, , .		9
35	Impulsive Noise Mitigation With Interleaving Based on MUSIC in Power Line Communication. IEEE Transactions on Smart Grid, 2019, 10, 3575-3584.	9.0	9
36	A multi-objective methodology for evaluating the investment in building-integrated hybrid renewable energy systems. Journal of Cleaner Production, 2021, 329, 129780.	9.3	9

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37	Channel evaluation for power line communication in plug â€“ in electric vehicles. IET Electrical Systems in Transportation, 2012, 2, 195.	2.4	8
38	Electrical load clustering: The Italian case. , 2014, , .		8
39	OPTIMIZATION OF A NOVEL MAGNETO-RHEOLOGICAL DEVICE WITH PERMANENT MAGNETS. Progress in Electromagnetics Research M, 2017, 62, 175-188.	0.9	8
40	Stability analysis of self-organizing maps and vector quantization algorithms. , 2010, , .		6
41	An evolutionary algorithm for global optimization based on self-organizing maps. Engineering Optimization, 2016, 48, 1740-1758.	2.6	6
42	A multiâ€“objective optimization algorithm based on selfâ€“organizing maps applied to wireless power transfer systems. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2017, 30, e2145.	1.9	6
43	Time, Wavelet and Hilbert-Huang Domain Analysis of Signals from Ultrasonic Based Equipment for the Non Destructive Evaluation of Concrete and Brick Masonry Walls. Lecture Notes in Computer Science, 2008, , 566-581.	1.3	5
44	Response Bounds of Indoor Power-Line Communication Systems With Cyclostationary Loads. IEEE Transactions on Power Delivery, 2009, 24, 596-603.	4.3	5
45	Analysis of transmission properties of naval power line channels. , 2010, , .		5
46	On the time invariance of PLC channels in complex power networks. , 2010, , .		5
47	Analysis of spectral clustering algorithms for linear and nonlinear time series. , 2011, , .		5
48	Global optimization algorithm based on self-organizing centroids. , 2012, , .		5
49	Wind turbine power curve estimation based on earth mover distance and artificial neural networks. IET Renewable Power Generation, 2019, 13, 2939-2946.	3.1	5
50	PIE-4 Voids Detection in Brick Masonry Structures by Using Ultrasonic Testing. Proceedings IEEE Ultrasonics Symposium, 2007, , .	0.0	4
51	Indirect monitoring and early detection of faults in trains' motors. IET Electrical Systems in Transportation, 2018, 8, 86-94.	2.4	4
52	Modeling of Nonlinearly Loaded Microwave Devices by a Wavelet Convolution Operator-Based Formulation. Electromagnetics, 2009, 29, 31-52.	0.7	3
53	Methods for energy price prediction in the Smart Grid. , 2012, , .		3
54	On the two-conductor modeling of three-phase cables in PLC. , 2012, , .		3

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55	Using electric vehicles to improve building energy sustainability. , 2014, , .		3
56	EnergyTest: A tool for assessing building energy sustainability. , 2014, , .		3
57	Displaying shape haptically using MRF-based device. , 2015, 2015, 1164-7.		3
58	A Machine Learning Model for Long-Term Power Generation Forecasting at Bidding Zone Level. , 2019, , .		3
59	Nonlinear decision feedback estimation for multicarrier power line communication. , 2008, , .		2
60	Analysis of time-varying properties of Power Line Communication Channels in ships. , 2011, , .		2
61	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.	1.9	2
62	A Learning Algorithm for Self-Organizing Maps Based on a Low-Pass Filter Scheme. , 2009, , .		1
63	Optimization of the set of path-rays in linear tomography. , 2013, , .		1
64	EMALS optimal design. , 2014, , .		1
65	Electromechanical analysis of an electrodynamic bearing. , 2017, , .		1
66	Transmission Channel Analysis for Broadband Communication over Multiconductor UIC Cables Onboard Regional Trains. Energies, 2019, 12, 497.	3.1	1
67	Power Regulation in Inductive Power Transfer via Power Line Communication. , 2019, , .		1
68	Optimal synthesis, design and operation of smart microgrids serving a cluster of buildings in a campus with centralized and decentralized hybrid renewable energy systems. AIP Conference Proceedings, 2019, , .	0.4	1
69	SVM Methods for Optimal Management of a Virtual Power Plant. Smart Innovation, Systems and Technologies, 2013, , 271-278.	0.6	1
70	One year Operation of an Innovative Condition Monitoring Technique in Four Hydropower Plants. , 2020, , .		1
71	A Fuzzy-Logic model for impulsive noise in PLC. , 2007, , .		0
72	Time domain sensitivity of non linear circuits via wavelet transform. , 2008, , .		0

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73	Combining WPT and PLC: A review. , 2016, , .		0
74	Wireless Power Transfer and Data Communication Cognitive Radio through Two-Coil Inductive Channel. , 2019, , .		0
75	Wireless Power Transfer with Data Transfer Capability for Electric and Hybrid Vehicles: State of the Art and Future Trends. , 2021, , .		0
76	Short-Term Forecast of Emergency Departments Visits Through Calendar Selection. Contributions To Statistics, 2020, , 415-426.	0.2	0
77	Electric Near Field Reduction in Wireless Power Transfer Systems. , 2020, , .		0
78	Wireless Power Transfer with Data Transfer Capability for Electric and Hybrid Vehicles: State of the Art and Future Trends. , 2021, , .		0