Francesco Grimaccia

List of Publications by Year in descending order

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73 papers

2,329 citations

236925 25 h-index 315739 38 g-index

73 all docs

73 docs citations

times ranked

73

2081 citing authors

#	Article	IF	CITATIONS
1	Analysis and validation of 24 hours ahead neural network forecasting of photovoltaic output power. Mathematics and Computers in Simulation, 2017, 131, 88-100.	4.4	221
2	Light Unmanned Aerial Vehicles (UAVs) for Cooperative Inspection of PV Plants. IEEE Journal of Photovoltaics, 2014, 4, 1107-1113.	2.5	188
3	A Physical Hybrid Artificial Neural Network for Short Term Forecasting of PV Plant Power Output. Energies, 2015, 8, 1138-1153.	3.1	152
4	Innovative Automated Control System for PV Fields Inspection and Remote Control. IEEE Transactions on Industrial Electronics, 2015, 62, 7287-7296.	7.9	118
5	Pitch angle control using hybrid controller for all operating regions of SCIG wind turbine system. Renewable Energy, 2014, 70, 197-203.	8.9	116
6	Genetical Swarm Optimization: Self-Adaptive Hybrid Evolutionary Algorithm for Electromagnetics. IEEE Transactions on Antennas and Propagation, 2007, 55, 781-785.	5.1	104
7	Hybrid Predictive Models for Accurate Forecasting in PV Systems. Energies, 2013, 6, 1918-1929.	3.1	83
8	Planning for PV plant performance monitoring by means of unmanned aerial systems (UAS). International Journal of Energy and Environmental Engineering, 2015, 6, 47-54.	2.5	83
9	Survey on PV Modules' Common Faults After an O&M Flight Extensive Campaign Over Different Plants in Italy. IEEE Journal of Photovoltaics, 2017, 7, 810-816.	2.5	78
10	Thermal and Performance Analysis of a Photovoltaic Module with an Integrated Energy Storage System. Applied Sciences (Switzerland), 2017, 7, 1107.	2.5	74
11	PV plant digital mapping for modules' defects detection by unmanned aerial vehicles. IET Renewable Power Generation, 2017, 11, 1221-1228.	3.1	68
12	Performance Analysis of a Single-Axis Tracking PV System. IEEE Journal of Photovoltaics, 2012, 2, 524-531.	2.5	66
13	Improving Transient Stability in a Grid-Connected Squirrel-Cage Induction Generator Wind Turbine System Using a Fuzzy Logic Controller. Energies, 2015, 8, 6328-6349.	3.1	48
14	Comparison of Training Approaches for Photovoltaic Forecasts by Means of Machine Learning. Applied Sciences (Switzerland), 2018, 8, 228.	2.5	46
15	ANN Sizing Procedure for the Day-Ahead Output Power Forecast of a PV Plant. Applied Sciences (Switzerland), 2017, 7, 622.	2.5	45
16	Comparison of echo state network and feed-forward neural networks in electrical load forecasting for demand response programs. Mathematics and Computers in Simulation, 2021, 184, 282-293.	4.4	45
17	Architecture and Methods for Innovative Heterogeneous Wireless Sensor Network Applications. Remote Sensing, 2012, 4, 1146-1161.	4.0	35
18	Novel Speed-Bump Design and Optimization for Energy Harvesting From Traffic. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 1983-1991.	8.0	35

#	Article	IF	CITATIONS
19	An Evolutionary-Based MPPT Algorithm for Photovoltaic Systems under Dynamic Partial Shading. Applied Sciences (Switzerland), 2018, 8, 558.	2.5	35
20	IR real-time analyses for PV system monitoring by digital image processing techniques. , 2015, , .		33
21	Review of O& M Practices in PV Plants: Failures, Solutions, Remote Control, and Monitoring Tools. IEEE Journal of Photovoltaics, 2020, 10, 914-926.	2.5	33
22	Novel Speed Bumps Design and Optimization for Vehicles' Energy Recovery in Smart Cities. Energies, 2012, 5, 4624-4642.	3.1	31
23	Design of Tubular Permanent Magnet Generators for Vehicle Energy Harvesting by Means of Social Network Optimization. IEEE Transactions on Industrial Electronics, 2018, 65, 1884-1892.	7.9	30
24	Optimization Models for Islanded Micro-Grids: A Comparative Analysis between Linear Programming and Mixed Integer Programming. Energies, 2017, 10, 241.	3.1	29
25	PV power plant inspection by image mosaicing techniques for IR real-time images. , 2016, , .		28
26	Hybrid model analysis and validation for PV energy production forecasting. , 2014, , .		27
27	Image resolution and defects detection in PV inspection by unmanned technologies. , 2016, , .		27
28	Automatic Boundary Extraction of Large-Scale Photovoltaic Plants Using a Fully Convolutional Network on Aerial Imagery. IEEE Journal of Photovoltaics, 2020, 10, 1061-1067.	2.5	27
29	Neuro-fuzzy predictive model for PV energy production based on weather forecast. , 2011, , .		26
30	Comparison of power quality in different grid-integrated wind turbines. , 2014, , .		26
31	A Computer Vision Line-Tracking Algorithm for Automatic UAV Photovoltaic Plants Monitoring Applications. Energies, 2020, 13, 838.	3.1	25
32	Advanced Asset Management Tools in Photovoltaic Plant Monitoring: UAV-Based Digital Mapping. Energies, 2019, 12, 4736.	3.1	24
33	Weather-based machine learning technique for Day-Ahead wind power forecasting., 2017,,.		22
34	Machine Learning-Based Detection Technique for NDT in Industrial Manufacturing. Mathematics, 2021, 9, 1251.	2.2	22
35	PV power plant inspection by UAS: Correlation between altitude and detection of defects on PV modules., 2015,,.		21
36	Short Term Electric Power Load Forecasting Using Principal Component Analysis and Recurrent Neural Networks. Forecasting, 2022, 4, 149-164.	2.8	19

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37	SOCIAL NETWORK OPTIMIZATION FOR MICROWAVE CIRCUITS DESIGN. Progress in Electromagnetics Research C, 2015, 58, 51-60.	0.9	18
38	Optimal Task Allocation in Wireless Sensor Networks by Means of Social Network Optimization. Mathematics, 2019, 7, 315.	2.2	18
39	Improving LVRT characteristics in variable-speed wind power generation by means of fuzzy logic. , 2014,		16
40	A new algorithm for antenna optimization in aerospace applications: The sounding rocket test case. , 2013, , .		15
41	Genetical Swarm Optimization of Multihop Routes in Wireless Sensor Networks. Applied Computational Intelligence and Soft Computing, 2010, 2010, 1-14.	2.3	12
42	Optimization of an energy harvesting buoy for coral reef monitoring., 2013,,.		12
43	Impact of SCIG, DFIG wind power plant on IEEE 14 bus system with small signal stability assessment. , 2014, , .		12
44	Blockchain as Key Enabling Technology for Future Electric Energy Exchange: A Vision. IEEE Access, 2020, 8, 205250-205271.	4.2	11
45	OPTIMIZATION OF A DUAL RING ANTENNA BY MEANS OF ARTIFICIAL NEURAL NETWORK. Progress in Electromagnetics Research B, 2014, 58, 59-69.	1.0	10
46	Optimal management algorithm for battery energy storage system included in an islanded Micro-Grid. , $2016, , .$		10
47	Assessment of PV Plant Monitoring System by Means of Unmanned Aerial Vehicles. , 2018, , .		10
48	Small signal stability of power system with SCIG, DFIG wind turbines. , 2014, , .		9
49	Advanced predictive models towards PV energy integration in smart grid. , 2012, , .		8
50	Experimental comparison of MPPT methods for PV systems under dynamic partial shading conditions. , 2016, , .		8
51	Hybrid controller for transient stability in wind generators. , 2015, , .		7
52	SNO design of microstrip antennas for an experimental rocket. , 2014, , .		6
53	Risk Analysis of the Future Implementation of a Safety Management System for Multiple RPAS Based on First Demonstration Flights. Electronics (Switzerland), 2017, 6, 50.	3.1	6
54	Modeling and Performance Evaluation of a Fuzzy Logic Controller for Buck-Boost DC/DC Converters. , 2018, , .		6

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55	Comparison of Binary Evolutionary Algorithms for Optimization of Thinned Array Antennas. , 2018, , .		5
56	Optimal Computational Distribution of Social Network Optimization in Wireless Sensor Networks. , 2018, , .		5
57	Social Network Optimization for WSN Routing: Analysis on Problem Codification Techniques. Mathematics, 2020, 8, 583.	2.2	5
58	A hybrid Fuzzy-PI cascade controller for transient stability improvement in DFIG wind generators. , 2016, , .		4
59	Seamless Grid: an off-chain model proposal for scalable P2P electricity markets and grids management. , 2019, , .		4
60	Stability Analysis and Optimal Energy Management of a Stand-Alone Hybrid Micro-Grid. , 2018, , .		3
61	Optimization Environment Definition for Beam Steering Reflectarray Antenna Design. Mathematics, 2022, 10, 33.	2.2	3
62	Evolutionary techniques for sensor networks energy optimization in marine environmental monitoring. Proceedings of SPIE, 2012, , .	0.8	2
63	Regulatory and Standardization Process for Unconventional Aircraft in Light UAV Segment. , 0, , .		2
64	Hybrid Power System Optimization in Mission-Critical Communication. Electronics (Switzerland), 2020, 9, 1971.	3.1	2
65	Hybrid Renewable Power System for Radio Networks in Mission Critical Applications., 2020,,.		2
66	Photovoltaic Plant Inspection by means of UAV: current practices and future perspectives., 2021,,.		2
67	Architecture and methods for UAV-based heterogeneous sensor network applications. , 2012, , .		1
68	A comparison between SNO and PSO for reflect-array optimization. , 2016, , .		1
69	SNO multi-objective implementation for sparse array optimization., 2017,,.		1
70	Effect of introduction of hypotheses in Antenna Optimization: Thinned array test case., 2018,,.		1
71	Analysis of Photovoltaic Five-Parameter Model. , 2018, , .		1
72	Airborne Unmanned Monitoring System for Coastal Erosion Assessment. , 2014, , 115-120.		1

ARTICLE IF CITATIONS

73 A new evolutionary algorithm for sparse array optimization., 2016,,... o