

Alberto Dolara

List of Publications by Year in descending order

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54
papers

2,173
citations

361413

20
h-index

454955

30
g-index

54
all docs

54
docs citations

54
times ranked

2011
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of different physical models for PV power output prediction. Solar Energy, 2015, 119, 83-99.	6.1	268
2	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
3	Experimental investigation of partial shading scenarios on PV (photovoltaic) modules. Energy, 2013, 55, 466-475.	8.8	184
4	A Physical Hybrid Artificial Neural Network for Short Term Forecasting of PV Plant Power Output. Energies, 2015, 8, 1138-1153.	3.1	152
5	Physical and hybrid methods comparison for the day ahead PV output power forecast. Renewable Energy, 2017, 113, 11-21.	8.9	150
6	Day-Ahead Photovoltaic Forecasting: A Comparison of the Most Effective Techniques. Energies, 2019, 12, 1621.	3.1	131
7	Urban Scale Photovoltaic Charging Stations for Electric Vehicles. IEEE Transactions on Sustainable Energy, 2014, 5, 1234-1241.	8.8	98
8	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
9	Snail Trails and Cell Microcrack Impact on PV Module Maximum Power and Energy Production. IEEE Journal of Photovoltaics, 2016, 6, 1269-1277.	2.5	72
10	Investigation on Performance Decay on Photovoltaic Modules: Snail Trails and Cell Microcracks. IEEE Journal of Photovoltaics, 2014, 4, 1204-1211.	2.5	67
11	Performance Analysis of a Single-Axis Tracking PV System. IEEE Journal of Photovoltaics, 2012, 2, 524-531.	2.5	66
12	Impact of High-Voltage Primary Supply Lines in the 2 \$imes\$ 25 kV@50 Hz Railway System on the Equivalent Impedance at Pantograph Terminals. IEEE Transactions on Power Delivery, 2012, 27, 164-175.	4.3	61
13	Stray Current Effects Mitigation in Subway Tunnels. IEEE Transactions on Power Delivery, 2012, 27, 2304-2311.	4.3	59
14	Power Quality and Harmonic Analysis of End User Devices. Energies, 2012, 5, 5453-5466.	3.1	58
15	Experimental test of seven widely-adopted MPPT algorithms. , 2009, , .		55
16	Comparison of Training Approaches for Photovoltaic Forecasts by Means of Machine Learning. Applied Sciences (Switzerland), 2018, 8, 228.	2.5	46
17	Improved PSO: A Comparative Study in MPPT Algorithm for PV System Control under Partial Shading Conditions. Energies, 2020, 13, 2035.	3.1	43
18	An Evolutionary-Based MPPT Algorithm for Photovoltaic Systems under Dynamic Partial Shading. Applied Sciences (Switzerland), 2018, 8, 558.	2.5	35

#	ARTICLE	IF	CITATIONS
19	Experimental validation of a model for PV systems under partial shading for building integrated applications. Solar Energy, 2019, 183, 356-370.	6.1	31
20	Optimization Models for Islanded Micro-Grids: A Comparative Analysis between Linear Programming and Mixed Integer Programming. Energies, 2017, 10, 241.	3.1	29
21	Image resolution and defects detection in PV inspection by unmanned technologies. , 2016, , .		27
22	Hybrid PV Power Forecasting Methods: A Comparison of Different Approaches. Energies, 2021, 14, 451.	3.1	26
23	Design and Performance Analysis of Pads for Dynamic Wireless Charging of EVs using the Finite Element Method. Energies, 2019, 12, 4139.	3.1	21
24	Transient Analysis of Large Scale PV Systems with Floating DC Section. Energies, 2012, 5, 3736-3752.	3.1	17
25	Efficiency analysis of PV power plants shaded by MV overhead lines. International Journal of Energy and Environmental Engineering, 2016, 7, 115-123.	2.5	16
26	Calculation of Rail Internal Impedance by Using Finite Elements Methods and Complex Magnetic Permeability. International Journal of Vehicular Technology, 2009, 2009, 1-10.	1.1	13
27	Power quality in public lighting systems. , 2010, , .		13
28	Validation of ANN Training Approaches for Day-Ahead Photovoltaic Forecasts. , 2018, , .		12
29	Effect of primary high voltage supply lines on the high speed AC railways systems. , 2010, , .		11
30	Reduced multiconductor transmission line models for power quality analysis in railway systems. , 2012, , .		11
31	Optimal management algorithm for battery energy storage system included in an islanded Micro-Grid. , 2016, , .		10
32	Effects of the DC stray currents on subway tunnel structures evaluated by FEM analysis. , 2010, , .		9
33	Lighting systems: Power consumptions and harmonics monitoring survey. , 2011, , .		8
34	Experimental comparison of MPPT methods for PV systems under dynamic partial shading conditions. , 2016, , .		8
35	PV hourly day-ahead power forecasting in a micro grid context. , 2016, , .		8
36	Outdoor Assessment and Performance Evaluation of OPV Modules. IEEE Journal of Photovoltaics, 2021, 11, 391-399.	2.5	8

#	ARTICLE	IF	CITATIONS
37	Harmonic analysis of output filters for grid connected converters in Battery Energy Storage Systems. , 2014, , .		7
38	Thermal and luminous investigations of a pcLED based refrigerating liquid prototype. Applied Thermal Engineering, 2014, 70, 884-891.	6.0	7
39	Outdoor Performance of Organic Photovoltaics: Comparative Analysis. Energies, 2022, 15, 1620.	3.1	7
40	EMC disturbances on track circuits in the 2×25kV high speed AC railways systems. , 2011, , .		6
41	Power electronic converters for PV systems in extreme environmental conditions. , 2013, , .		3
42	Case study of lights energy saving. , 2014, , .		3
43	Design of a Resonant Converter for a Regenerative Braking System Based on Ultracap Storage for Application in a Formula SAE Single-Seater Electric Racing Car. Electronics (Switzerland), 2021, 10, 161.	3.1	3
44	Performance Assessment of Mismatch Mitigation Methodologies Using Field Data in Solar Photovoltaic Systems. Electronics (Switzerland), 2022, 11, 1938.	3.1	3
45	Faults analysis theory and schemes of four-phase power systems. , 2009, , .		2
46	The optimum PV plant of an inverter. , 2013, , .		2
47	Power quality analysis of LED lighting system for railway applications. , 2014, , .		2
48	Analysis of Electrodynamical Forces in Switching Devices for Railway Applications. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 901-911.	2.5	2
49	Optimal playing of electric vehicle charging stations. , 2017, , .		2
50	E-campus: The â€œsustabilizationâ€•of engineering Bovisa Campus. , 2016, , .		1
51	Analysis of Photovoltaic Five-Parameter Model. , 2018, , .		1
52	Reduced models for the EMC analysis of high speed railway systems. , 2012, , .		0
53	Battery Energy Storage System and Improved Communication Topology for Enhancing Power Quality of Microgrid. , 2019, , .		0
54	Hybrid Structure and Fuzzy Logic High Precision Control for Non-Geostationary Satellite Antenna Tracking. International Journal on Communications Antenna and Propagation, 2015, 5, 290.	0.3	0