

Silvio J P S Mariano

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

1,812
citations

361413

20
h-index

289244

40
g-index

90
all docs

90
docs citations

90
times ranked

1527
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-term electricity prices forecasting in a competitive market: A neural network approach. <i>Electric Power Systems Research</i> , 2007, 77, 1297-1304.	3.6	333
2	A new high performance method for determining the parameters of PV cells and modules based on guaranteed convergence particle swarm optimization. <i>Applied Energy</i> , 2018, 211, 774-791.	10.1	187
3	Scheduling of Head-Sensitive Cascaded Hydro Systems: A Nonlinear Approach. <i>IEEE Transactions on Power Systems</i> , 2009, 24, 337-346.	6.5	148
4	A bat optimized neural network and wavelet transform approach for short-term price forecasting. <i>Applied Energy</i> , 2018, 210, 88-97.	10.1	97
5	Collaborative swarm intelligence to estimate PV parameters. <i>Energy Conversion and Management</i> , 2019, 185, 866-890.	9.2	89
6	Optimization of neural network with wavelet transform and improved data selection using bat algorithm for short-term load forecasting. <i>Neurocomputing</i> , 2019, 358, 53-71.	5.9	66
7	Ocean wave energy forecasting using optimised deep learning neural networks. <i>Ocean Engineering</i> , 2021, 219, 108372.	4.3	62
8	A practical approach for profit-based unit commitment with emission limitations. <i>International Journal of Electrical Power and Energy Systems</i> , 2010, 32, 218-224.	5.5	56
9	Parameterisation effect on the behaviour of a head-dependent hydro chain using a nonlinear model. <i>Electric Power Systems Research</i> , 2006, 76, 404-412.	3.6	50
10	Short-term scheduling of thermal units: emission constraints and trade-off curves. <i>European Transactions on Electrical Power</i> , 2008, 18, 1-14.	1.0	48
11	Multiswarm spiral leader particle swarm optimisation algorithm for PV parameter identification. <i>Energy Conversion and Management</i> , 2020, 225, 113388.	9.2	39
12	Power Management Control Strategy Based on Artificial Neural Networks for Standalone PV Applications with a Hybrid Energy Storage System. <i>Energies</i> , 2019, 12, 902.	3.1	38
13	Multi-Flexibility Option Integration to Cope With Large-Scale Integration of Renewables. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 48-60.	8.8	38
14	Demand Response-Based Operation Model in Electricity Markets With High Wind Power Penetration. <i>IEEE Transactions on Sustainable Energy</i> , 2019, 10, 918-930.	8.8	31
15	Wave energy potential in Portugal – Assessment based on probabilistic description of ocean waves parameters. <i>Renewable Energy</i> , 2012, 47, 1-8.	8.9	29
16	Optimising power generation efficiency for head-sensitive cascaded reservoirs in a competitive electricity market. <i>International Journal of Electrical Power and Energy Systems</i> , 2008, 30, 125-133.	5.5	27
17	A new controller for DC-DC converters based on particle swarm optimization. <i>Applied Soft Computing Journal</i> , 2017, 52, 418-434.	7.2	27
18	Impacts of the COVID-19 pandemic on electric energy load and pricing in the Iberian electricity market. <i>Energy Reports</i> , 2021, 7, 4833-4849.	5.1	24

#	ARTICLE	IF	CITATIONS
19	Impact of Rural Grid-Connected Photovoltaic Generation Systems on Power Quality. <i>Energies</i> , 2016, 9, 739.	3.1	22
20	An Artificial Neural Network Approach for Short-Term Electricity Prices Forecasting. , 2007, , .		20
21	An electric vehicle charging station: Monitoring and analysis of power quality. , 2015, , .		20
22	Design and Implementation of MPPT System Based on PSO Algorithm. , 2018, , .		20
23	Stacking Ensemble Methodology Using Deep Learning and ARIMA Models for Short-Term Load Forecasting. <i>Energies</i> , 2021, 14, 7378.	3.1	20
24	Nonlinear optimization method for short-term hydro scheduling considering head-dependency. <i>European Transactions on Electrical Power</i> , 2010, 20, 172-183.	1.0	19
25	Management System for Large Li-Ion Battery Packs with a New Adaptive Multistage Charging Method. <i>Energies</i> , 2017, 10, 605.	3.1	19
26	Profit-Based Short-Term Hydro Scheduling considering Head-Dependent Power Generation. , 2007, , .		15
27	Profit-Based Unit Commitment with Emission Limitations: A Multiobjective Approach. , 2007, , .		13
28	Design of a new linear generator for wave energy conversion based on analytical and numerical analyses. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, 033117.	2.0	13
29	Prospects of a Meshed Electrical Distribution System Featuring Large-Scale Variable Renewable Power. <i>Energies</i> , 2018, 11, 3399.	3.1	12
30	Maximum Power Point Tracking for a Point Absorber Device with a Tubular Linear Switched Reluctance Generator. <i>Energies</i> , 2018, 11, 2192.	3.1	11
31	Daily Operation Optimization of a Hybrid Energy System Considering a Short-Term Electricity Price Forecast Scheme. <i>Energies</i> , 2019, 12, 924.	3.1	11
32	Power Quality Experimental Analysis on Rural Home Grid-Connected PV Systems. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-8.	2.5	10
33	Particle swarm and Box \times 3s complex optimization methods to design linear tubular switched reluctance generators for wave energy conversion. <i>Swarm and Evolutionary Computation</i> , 2016, 28, 29-41.	8.1	10
34	Suitable mathematical model for the electrical characterization of different photovoltaic technologies: Experimental validation. <i>Energy Conversion and Management</i> , 2021, 231, 113820.	9.2	10
35	Optimal control: Load frequency control of a large power system. , 2008, , .		9
36	Optimal output control: Load frequency control of a large power system. , 2009, , .		9

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37	Short-Term Load Forecasting using optimized LSTM Networks via Improved Bat Algorithm. , 2018, , .		9
38	Characterization of a new linear switched reluctance actuator. , 2009, , .		8
39	Proportional Resonant Current Control and Output-Filter Design Optimization for Grid-Tied Inverters Using Grey Wolf Optimizer. Energies, 2020, 13, 1923.	3.1	8
40	Ocean wave power forecasting using convolutional neural networks. IET Renewable Power Generation, 2021, 15, 3341-3353.	3.1	8
41	Balancing management system for improving Li-ion batteries capacity usage and lifespan. , 2016, , .		7
42	Dispatch of Head Dependent Hydro Units: Modeling for optimal generation in electricity market. , 2009, , .		6
43	Determination of the Earth Fault Factor in Power Systems for Different Earthed Neutrals. IEEE Latin America Transactions, 2010, 8, 637-645.	1.6	6
44	Design of a tubular switched reluctance linear generator for wave energy conversion based on ocean wave parameters. , 2011, , .		6
45	Direct instantaneous thrust control of 3 phase linear switched reluctance actuator. , 2012, , .		6
46	Production scheduling: regulation or deregulation-back to a theoretical basis. , 0, , .		5
47	Application of Neural Networks on Next-Day Electricity Prices Forecasting. , 2006, , .		5
48	Direct Instantaneous Thrust Control optimization of a linear switched reluctance actuator by Pulse-width modulation duty ratio adjustment. , 2014, , .		5
49	Experimental force characterization of linear switched reluctance machine. , 2016, , .		5
50	Electromagnetic design method for a TLSRG with application in ocean wave energy conversion. International Journal of Electrical Power and Energy Systems, 2020, 121, 106097.	5.5	5
51	A procedure to specify the weighting matrices for an optimal load-frequency controller. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , .	1.4	5
52	Restructuring models-a comparison based on numerical simulation results. , 0, , .		4
53	Nonlinear approach for short-term scheduling of a head-sensitive hydro chain. , 2005, , .		4
54	Unit Commitment in a Competitive and Emission Constrained Environment. IEEE Latin America Transactions, 2009, 7, 560-568.	1.6	4

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55	A Novel Lagrangian Multiplier Update Algorithm for Short-Term Hydro-Thermal Coordination. <i>Energies</i> , 2020, 13, 6621.	3.1	4
56	SCHEDULING OF HEAD-SENSITIVE CASCADED HYDRO SYSTEMS: A COMPARISON BASED ON NUMERICAL SIMULATION RESULTS. <i>International Journal of Power and Energy Systems</i> , 2008, 28, .	0.2	4
57	A New Charging Algorithm for Li-Ion Battery Packs Based on Artificial Neural Networks. <i>Batteries</i> , 2022, 8, 18.	4.5	4
58	Power house I/O curves considering head dependency. , 2009, , .		3
59	Using finite element method based software to teach electrical machinesâ€”The linear switched reluctance actuator. <i>Computer Applications in Engineering Education</i> , 2015, 23, 824-836.	3.4	3
60	Micro-generation with solar energy: Power quality and impact on a rural low-voltage grid. , 2015, , .		3
61	Evaluation of a particle swarm optimization controller for dc-dc boost converters. , 2015, , .		3
62	Blueberries field irrigation management and monitoring system using PLC based control and wireless sensor network. , 2016, , .		3
63	Particle Swarm Optimization for photovoltaic model identification. , 2017, , .		3
64	Pole-shifting procedure to specify the weighting matrices for a load-frequency controller. , 2010, , .		2
65	Optimal Hydro-Wind Power Generation for Day-Ahead Pool Market. <i>IEEE Latin America Transactions</i> , 2015, 13, 2630-2636.	1.6	2
66	Damping of Power System Oscillations with Optimal Regulator. <i>Energy Systems</i> , 2016, , 173-198.	0.5	2
67	Glowworm Swarm Optimization for photovoltaic model identification. , 2017, , .		2
68	Position Control of Linear Switched Reluctance Machine using Flower Pollination Algorithm. , 2018, , .		2
69	Lookup Table Based Intelligent Charging and Balancing Algorithm for Li-ion Battery Packs. , 2018, , .		2
70	Daily Operation Optimization for Grid-Connected Hybrid System Considering Short-Term Electricity Price Forecast Scheme. , 2018, , .		2
71	Overview of Economic and Environmental Policy Issues Affecting Thermal Power Systems Operational Planning Under Deregulation. , 2006, , .		1
72	Optimal response of a hydroelectric power plant with bilateral contracts. , 2010, , .		1

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73	Design and numerical analysis of a new linear generator for wave energy conversion. , 2011, , .		1
74	Damping of power system oscillations with optimal regulator. , 2011, , .		1
75	Nonlinear head-sensitive hydroelectric generation scheduling in competitive electricity market. , 2012, , .		1
76	The IEEE Model for a Ground Rod in a Two Layer Soil “ A FEM Approach. , 0, , .		1
77	Performance analysis of linear switched reluctance generator for different teeth shapes. The generation quality factor. , 2013, , .		1
78	Power Management Strategy for Standalone PV Applications with Hybrid Energy Storage System. , 2018, , .		1
79	Multi-Objective Market Clearing Model with an Autonomous Demand Response Scheme. Energies, 2019, 12, 1261.	3.1	1
80	Profit-Based Optimal Operation of a Head-Dependent Hydroelectric Power Station in the Bilateral Market. Renewable Energy and Power Quality Journal, 2010, 1, 1482-1487.	0.2	1
81	A Simulink nonlinear model for LSRA control scheme analysis. , 2011, , .		0
82	Sustainable energy systems: Mini-production with solar photovoltaic energy in Portugal. , 2013, , .		0
83	Power system stabilizer design based on output optimal control techniques. , 2013, , .		0
84	PV charging station for electric vehicles: Management and interface system. , 2016, , .		0
85	A Modified Multidimension Diode Model for PV Parameters Identification Using Guaranteed Convergence Particle Swarm Optimization Algorithm. , 2018, , .		0
86	A New Approach for Dynamic Energy Storage System. , 2018, , .		0
87	High-Grade Position Control of a Linear Switched Reluctance Actuator based in Direct Instantaneous Force Control. , 2020, , .		0
88	Determination of the Earth Fault Factor in Power Systems For Different Earthed Neutrals. Renewable Energy and Power Quality Journal, 2010, 1, 1476-1481.	0.2	0
89	Enhanced Methodologies in Photovoltaic Production with Energy Storage Systems Integrating Multi-cell Lithium-Ion Batteries. Studies in Computational Intelligence, 2020, , 247-274.	0.9	0