

Pietro Varilone

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

1,059
citations

471509

17
h-index

454955

30
g-index

82
all docs

82
docs citations

82
times ranked

871
citing authors

#	ARTICLE	IF	CITATIONS
1	Point estimate schemes for probabilistic three-phase load flow. <i>Electric Power Systems Research</i> , 2010, 80, 168-175.	3.6	90
2	Multi-linear Monte Carlo simulation method for probabilistic load flow of distribution systems with wind and photovoltaic generation systems. <i>Renewable Energy</i> , 2015, 76, 283-295.	8.9	90
3	Minimizing unbalances in low-voltage microgrids: Optimal scheduling of distributed resources. <i>Applied Energy</i> , 2017, 191, 170-182.	10.1	62
4	Probabilistic three-phase load flow for unbalanced electrical distribution systems with wind farms. <i>IET Renewable Power Generation</i> , 2007, 1, 115.	3.1	56
5	A Bayesian-Based Approach for a Short-Term Steady-State Forecast of a Smart Grid. <i>IEEE Transactions on Smart Grid</i> , 2013, 4, 1760-1771.	9.0	50
6	Chaos-Based Modeling of DC Arc Furnaces for Power Quality Issues. <i>IEEE Transactions on Power Delivery</i> , 2004, 19, 1869-1876.	4.3	49
7	Analytical Modeling for Harmonic Analysis of Line Current of VSI-Fed Drives. <i>IEEE Transactions on Power Delivery</i> , 2004, 19, 1212-1224.	4.3	42
8	Taguchi's method for probabilistic three-phase power flow of unbalanced distribution systems with correlated Wind and Photovoltaic Generation Systems. <i>Renewable Energy</i> , 2018, 117, 227-241.	8.9	41
9	Capacitor placement in three-phase distribution systems with nonlinear and unbalanced loads. <i>IET Generation, Transmission and Distribution</i> , 2005, 152, 47.	1.1	39
10	Probabilistic three-phase load flow. <i>International Journal of Electrical Power and Energy Systems</i> , 1999, 21, 55-69.	5.5	38
11	Analysis of the origin of measured voltage sags in interconnected networks. <i>Electric Power Systems Research</i> , 2018, 154, 391-400.	3.6	34
12	Complete matrix formulation of fault-position method for voltage-dip characterisation. <i>IET Generation, Transmission and Distribution</i> , 2007, 1, 56.	2.5	30
13	Methods for Assessing the Robustness of Electrical Power Systems Against Voltage Dips. <i>IEEE Transactions on Power Delivery</i> , 2009, 24, 43-51.	4.3	30
14	Single-objective probabilistic optimal allocation of capacitors in unbalanced distribution systems. <i>Electric Power Systems Research</i> , 2012, 87, 47-57.	3.6	28
15	A Hybrid Method for Optimal Siting and Sizing of Battery Energy Storage Systems in Unbalanced Low Voltage Microgrids. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 455.	2.5	24
16	First-order probabilistic harmonic power flow. <i>IET Generation, Transmission and Distribution</i> , 2001, 148, 541.	1.1	22
17	Voltage stability analysis in unbalanced power systems by optimal power flow. <i>IET Generation, Transmission and Distribution</i> , 2006, 153, 261.	1.1	22
18	A global index for discrete voltage disturbances. , 2007, , .		18

#	ARTICLE	IF	CITATIONS
19	Optimal allocation of capacitors in unbalanced multi-converter distribution systems: A comparison of some fast techniques based on genetic algorithms. <i>Electric Power Systems Research</i> , 2010, 80, 642-650.	3.6	18
20	Impact of Distributed Generation on the Voltage Sag Performance of Transmission Systems. <i>Energies</i> , 2017, 10, 959.	3.1	16
21	Voltage sags in the automotive industry: Analysis and solutions. <i>Electric Power Systems Research</i> , 2014, 110, 25-30.	3.6	14
22	An integrated probabilistic harmonic index. , 0, , .		13
23	User friendly smart distributed measurement system for monitoring and assessing the electrical power quality. , 2015, , .		13
24	A New Advanced Method for an Accurate Assessment of Harmonic and Supraharmonic Distortion in Power System Waveforms. <i>IEEE Access</i> , 2021, 9, 88685-88698.	4.2	12
25	New Approaches for Very Short-term Steady-State Analysis of An Electrical Distribution System with Wind Farms. <i>Energies</i> , 2010, 3, 650-670.	3.1	11
26	Initial Results of an Extensive, Long-Term Study of the Forecasting of Voltage Sags. <i>Energies</i> , 2021, 14, 1264.	3.1	11
27	Planning of Distributed Energy Storage Systems in $\hat{1}/4$ Grids Accounting for Voltage Dips. <i>Energies</i> , 2020, 13, 401.	3.1	11
28	Decision theory criteria for capacitor placement in unbalanced distribution systems. , 0, , .		9
29	Point estimate schemes for probabilistic load flow analysis of unbalanced electrical distribution systems with wind farms. , 2010, , .		9
30	A New Hybrid Approach Using the Simultaneous Perturbation Stochastic Approximation Method for the Optimal Allocation of Electrical Energy Storage Systems. <i>Energies</i> , 2018, 11, 1505.	3.1	9
31	Statistical Characterization of Supraharmonics in Low-Voltage Distribution Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3574.	2.5	8
32	Probabilistic AC/DC 3-phase load flow. , 0, , .		7
33	High speed AC locomotives: harmonic and interharmonic analysis at a vehicle test room. , 0, , .		7
34	Active filters: A multi-objective approach for the optimal allocation and sizing in distribution networks. , 2014, , .		7
35	On the Forecast of the Voltage Sags: First Stages of Analysis on Real Systems. , 2020, , .		7
36	Deterministic Approaches for the Steady-State Analysis of Distribution Systems with Wind Farms. <i>Energy Systems</i> , 2013, , 211-244.	0.5	7

#	ARTICLE	IF	CITATIONS
37	Probabilistic harmonic power flow for percentile evaluation. , 0, , .		6
38	Multi-linear Monte Carlo simulation for probabilistic three-phase load flow. European Transactions on Electrical Power, 2007, 17, 1-19.	1.0	6
39	Voltage stability in unbalanced power systems: a new complementarity constraintsâ€based approach. IET Generation, Transmission and Distribution, 2015, 9, 2014-2023.	2.5	6
40	Voltage sag estimation of real transmission systems for faults along the lines. , 2018, , .		6
41	Indices of Intermittence to Improve the Forecasting of the Voltage Sags Measured in Real Systems. IEEE Transactions on Power Delivery, 2022, 37, 1252-1263.	4.3	6
42	Evaluation methods and accuracy in probabilistic harmonic power flow. European Transactions on Electrical Power, 2003, 13, 391-398.	1.0	5
43	Discussion of "Time-varying harmonics: Part II-harmonic summation and propagation". IEEE Transactions on Power Delivery, 2003, 18, 656-657.	4.3	5
44	Point estimate schemes for probabilistic harmonic power flow. , 2014, , .		5
45	Probabilistic Estimation of the Energy Consumption and Performance of the Lighting Systems of Road Tunnels for Investment Decision Making. Energies, 2019, 12, 1488.	3.1	5
46	Detecting the Origin of the Voltage Sags Measured in the Smart Grids. , 2019, , .		5
47	Probabilistic techniques for three-phase load flow analysis. , 0, , .		4
48	Hardware-in-the-Loop Validation of Energy Management Systems for Microgrids: A Short Overview and a Case Study. Energies, 2018, 11, 2978.	3.1	4
49	Comparison of methods using only voltage measurements for detecting the origin of voltage sags in the modern distribution networks. , 2018, , .		4
50	Effects of Voltage Dips on Robotic Grasping. Robotics, 2019, 8, 28.	3.5	4
51	Probabilistic Harmonic Analysis for Waveform Distortion Assessment of Low Voltage Distribution Systems with Plug-in Hybrid Electric Vehicles. , 2019, , .		3
52	Short-circuit modeling of three-phase 4-wire unbalanced networks in presence of single-phase photovoltaic systems. International Journal of Electrical Power and Energy Systems, 2022, 135, 107604.	5.5	3
53	Probabilistic evaluation of harmonic impedances in unbalanced distribution systems. , 0, , .		2
54	Trade-off methods for capacitor placement in unbalanced distribution systems. , 2005, , .		2

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55	Power converters for fuel-cells based UPS to improve power quality. , 0, , .		2
56	Allocation of Capacitors and Voltage Regulators in Unbalanced Distribution Systems: A Multi-objective Problem in Probabilistic Frameworks. International Journal of Emerging Electric Power Systems, 2014, 15, 557-568.	0.8	2
57	Planning of energy storage systems in unbalanced microgrids. , 2017, , .		2
58	Sag Estimation of Real Transmission Systems for Faults Along the Lines in the Presence of Distributed Generation. , 2018, , .		2
59	Methods for Assessment of Supraharmonics in Power Systems. Part I: Theoretical Issues. , 2019, , .		2
60	Tools for Assessing the Robustness of Electrical System against Voltage Dips in terms of Amplitude, Duration and Frequency. Renewable Energy and Power Quality Journal, 0, , 177-182.	0.2	2
61	Some approaches to approximate the probability density functions of harmonics. , 0, , .		1
62	Fast Probabilistic Assessment of Voltage Dips in Power Systems. , 2006, , .		1
63	On robustness of distribution systems against voltage dips. , 0, , .		1
64	On Energy Recovery Possibility at Test Facility of Generator Sets. , 2007, , .		1
65	Power Converters for Fuel-Cells Based Micro-Cogeneration Units. , 2007, , .		1
66	A Heuristic Hybrid Technique for the Optimal Allocation of Capacitors in Unbalanced Multiconverter Distribution Systems. , 2008, , .		1
67	On the economic regulation of voltage quality. , 2008, , .		1
68	Multiobjective optimal allocation of capacitors in distribution systems: a new heuristic technique based on reduced search space regions and genetic algorithms. , 2009, , .		1
69	On the robustness of the distribution systems against voltage dips: The analytical assessment for different structure variations. , 2010, , .		1
70	Integrated modelling and experimental verification of energy consumption and performance of the lighting systems of tunnels. , 2014, , .		1
71	Scheduling of unbalanced low voltage microgrids: A single-objective approach. , 2016, , .		1
72	Methods for Assessment of Supraharmonics in Power Systems. Part II: Numerical Applications. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
73	Probabilistic harmonic power flow for assessing waveform distortions in distribution systems with wind embedded generation. , 0, , .		0
74	Probabilistic Modeling for Network Analysis. , 0, , 95-113.		0
75	Probabilistic Harmonic Indices. , 0, , 137-147.		0
76	A probabilistic approach for multiobjective optimal allocation of capacitors in distribution systems based on genetic algorithms. , 2010, , .		0
77	Voltage stability analysis in unbalanced three-phase power systems with complementarity constraints. , 2013, , .		0
78	New challenges for forecasting voltage sags due to lightning phenomena in distribution networks. , 2021, , .		0
79	On the Forecast of the Voltage Sags Using the Measurements in Real Power Systems. , 2022, , .		0
80	Accurate and Fast Parallelized Assessment of Waveform Distortions in Presence of Low and High frequency Spectral Components. , 2022, , .		0
81	Optimal Siting and Sizing of Electrical Energy Storages Accounting for Voltage Dip Economic Regulation. , 2022, , .		0
82	Impact of Synchronous Compensators on the Robustness in Short-Circuit Conditions of Transmission Systems with High Share of RES. , 2022, , .		0