

Alireza Jalilian

List of Publications by Year in descending order

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54
papers

1,903
citations

471509

17
h-index

330143

37
g-index

54
all docs

54
docs citations

54
times ranked

1670
citing authors

#	ARTICLE	IF	CITATIONS
1	Secondary Control Scheme for Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Smart Grid, 2012, 3, 797-807.	9.0	425
2	Secondary Control for Voltage Quality Enhancement in Microgrids. IEEE Transactions on Smart Grid, 2012, 3, 1893-1902.	9.0	316
3	Autonomous Voltage Unbalance Compensation in an Islanded Droop-Controlled Microgrid. IEEE Transactions on Industrial Electronics, 2013, 60, 1390-1402.	7.9	285
4	Optimal sizing and location of renewable energy based DG units in distribution systems considering load growth. International Journal of Electrical Power and Energy Systems, 2018, 101, 356-370.	5.5	104
5	Autonomous Control of Current- and Voltage-Controlled DG Interface Inverters for Reactive Power Sharing and Harmonics Compensation in Islanded Microgrids. IEEE Transactions on Power Electronics, 2018, 33, 9375-9386.	7.9	71
6	A New Approach for Allocation and Sizing of Multiple Active Power-Line Conditioners. IEEE Transactions on Power Delivery, 2010, 25, 1026-1035.	4.3	64
7	Coordinated control of multifunctional inverters for voltage support and harmonic compensation in a grid-connected microgrid. Electric Power Systems Research, 2018, 155, 254-264.	3.6	44
8	Selective compensation of voltage harmonics in grid-connected microgrids. Mathematics and Computers in Simulation, 2013, 91, 211-228.	4.4	42
9	Flexible Fractional Compensating Mode for Railway Static Power Conditioner in a V/v Traction Power Supply System. IEEE Transactions on Industrial Electronics, 2018, 65, 7963-7974.	7.9	36
10	Optimal placement and sizing of multiple APLCs using a modified discrete PSO. International Journal of Electrical Power and Energy Systems, 2012, 43, 630-639.	5.5	34
11	Fast network reconfiguration in harmonic polluted distribution network based on developed backward/forward sweep harmonic load flow. Electric Power Systems Research, 2019, 168, 295-304.	3.6	34
12	Wavelet-based index to discriminate between minor interturn short-circuit and resistive asymmetrical faults in stator windings of doubly fed induction generators: a simulation study. IET Generation, Transmission and Distribution, 2016, 10, 374-381.	2.5	32
13	Optimal sizing and siting of renewable energy resources in distribution systems considering time varying electrical/heating/cooling loads using PSO algorithm. International Journal of Green Energy, 2018, 15, 113-128.	3.8	32
14	A novel objective function for optimal DG allocation in distribution systems using meta-heuristic algorithms. International Journal of Green Energy, 2016, 13, 1615-1625.	3.8	29
15	Hierarchical control scheme for voltage Harmonics Compensation in an islanded droop-controlled microgrid. , 2011, , .		24
16	Analysis of voltage fluctuation impact on induction motors by an innovative equivalent circuit considering the speed changes. IET Generation, Transmission and Distribution, 2017, 11, 512-519.	2.5	22
17	Modelling and improvement of open-UPQC performance in voltage sag compensation by contribution of shunt units. Electric Power Systems Research, 2020, 187, 106506.	3.6	18
18	Optimal Allocation and Sizing of Active Power Line Conditioners Using a New Particle Swarm Optimization-based Approach. Electric Power Components and Systems, 2012, 40, 273-291.	1.8	17

#	ARTICLE	IF	CITATIONS
19	Power quality enhancement and power management of a multifunctional interfacing inverter for PV and battery energy storage system. International Transactions on Electrical Energy Systems, 2018, 28, e2643.	1.9	17
20	An Investigation of Induction Motor Saturation under Voltage Fluctuation Conditions. Journal of Magnetism, 2017, 22, 306-314.	0.4	17
21	Indices for measurement of harmonic distortion in power systems according to IEC 61000-4-7 standard. IET Generation, Transmission and Distribution, 2015, 9, 1903-1912.	2.5	16
22	Optimal sizing and location of open-UPQC in distribution networks considering load growth. International Journal of Electrical Power and Energy Systems, 2021, 130, 106893.	5.5	16
23	Multifunctional control strategy of Half-Bridge based Railway Power Quality Conditioner for Traction System. , 2013, , .		14
24	Flexible Compensation of Voltage and Current Unbalance and Harmonics in Microgrids. Energies, 2017, 10, 1568.	3.1	14
25	A new method for evaluation of harmonic distortion in reconfiguration of distribution network. International Transactions on Electrical Energy Systems, 2020, 30, e12370.	1.9	14
26	Control of a multi-functional inverter for grid integration of PV and battery energy storage system. , 2015, , .		13
27	Dynamic modeling, control design and stability analysis of railway active power quality conditioner. Electric Power Systems Research, 2018, 160, 71-88.	3.6	13
28	Comparison of compensation strategies for shunt active power filter control in unbalanced tree-phase four-wire systems. , 2009, , .		12
29	Optimization of DG Units in Distribution Systems for Voltage Sag Minimization Considering Various Load Types. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2021, 45, 685-699.	2.3	11
30	Secondary control for compensation of voltage harmonics and unbalance in microgrids. , 2012, , .		9
31	Resonance assessment in electrified railway systems using comprehensive model of train and overhead catenary system. , 2015, , .		9
32	Investigation of Increased Ohmic and Core Losses in Induction Motors Under Voltage Fluctuation Conditions. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 373-382.	2.3	8
33	Reconfiguration of distribution network using discrete particle swarm optimization to reduce voltage fluctuations. International Transactions on Electrical Energy Systems, 2020, 30, e12501.	1.9	8
34	Effect of protection device coordination on voltage sag characteristics of distribution networks. ISA Transactions, 2010, 49, 407-414.	5.7	7
35	Application of pulse doubling in delta/polygon-connected transformer-based 36-pulse ac-dc converter for power quality improvement. , 2012, , .		7
36	Detection of Short-Term Voltage Disturbances and Harmonics Using $\frac{1}{4}$ PMU-Based Variational Mode Extraction Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-17.	4.7	7

#	ARTICLE	IF	CITATIONS
37	Hybrid SVC-HPQC Scheme with Partial Compensation Technique in Co-phase Electric Railway System. , 2019, , .		6
38	High torque and excessive vibration on the induction motors under special voltage fluctuation conditions. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2021, 40, 822-836.	0.9	6
39	Using C-type filter with partial compensation method for capacity reduction of hybrid power quality conditioner in co-phase traction power system. IET Power Electronics, 2021, 14, 2350-2373.	2.1	6
40	A Z-source railway static power conditioner for power quality improvement. , 2016, , .		5
41	Voltage unbalance compensation by a grid connected inverter using virtual impedance and admittance control loops. , 2018, , .		5
42	Secondary-control-based harmonics compensation scheme for voltage and current-controlled inverters in islanded microgrids. IET Renewable Power Generation, 2020, 14, 2176-2182.	3.1	5
43	Developing a new distribution test system to estimate customer outage costs using accurate and approximate procedures. Energy, 2010, 35, 1300-1311.	8.8	4
44	A new operational approach to minimize open unified power quality conditioner rating: OUPQC-VAmin. Electric Power Systems Research, 2022, 203, 107648.	3.6	4
45	A New Method for Modelling Loss in a Distribution Network. , 2006, , .		3
46	Control of Hybrid Active Power Filter Based on Switching Function Coefficients. Electric Power Components and Systems, 2015, 43, 1498-1508.	1.8	3
47	An Approach to Discriminate Between Types of Rotor and Stator Winding Faults in Wound Rotor Induction Machines. , 2018, , .		3
48	Hybrid railway power quality conditioner based on half-bridge converter and asymmetric balanced traction transformer with deadbeat current control. IET Power Electronics, 2019, 12, 3447-3459.	2.1	3
49	Transfer function-based analysis of harmonic and interharmonic current summation in type-III wind power plants using DFIG sequence impedance modeling. Electric Power Systems Research, 2021, 199, 107419.	3.6	3
50	Implementation of a single-phase shunt active power filter under nonsinusoidal voltage source. , 2010, , .		2
51	Half-Bridge Power Quality Conditioner for Railway Traction Distribution System Based on a New Balancing Transformer. , 2018, , .		2
52	DSP-based digital control of a single-phase shunt active power filter under distorted voltage source. , 2010, , .		1
53	Improved Railway Static Power Conditioner Using C-type Filter in Scott Co-phase Traction Power Supply System. , 2019, , .		1
54	A novel single-phase shunt hybrid power filter configuration for power quality improvement. , 2009, , .		0