Seyed Hossein Hosseinian

List of Publications by Year
in descending order

129 papers	2,754 citations	201575 27 h-index	223716 46 g-index
130 all docs	130 docs citations	130 times ranked	2555 citing authors

#	Article	IF	Citations
1	Unit Commitment Problem Solution Using Shuffled Frog Leaping Algorithm. IEEE Transactions on Power Systems, 2011, 26, 573-581.	4.6	139
2	Decentralized Cooperative Control Strategy of Microsources for Stabilizing Autonomous VSC-Based Microgrids. IEEE Transactions on Power Systems, 2012, 27, 1949-1959.	4.6	128
3	An Optimal Dispatch Algorithm for Managing Residential Distributed Energy Resources. IEEE Transactions on Smart Grid, 2014, 5, 2360-2367.	6.2	114
4	Bacterial Foraging-Based Solution to the Unit-Commitment Problem. IEEE Transactions on Power Systems, 2009, 24, 1478-1488.	4.6	108
5	GA-based optimal sizing of microgrid and DG units under pool and hybrid electricity markets. International Journal of Electrical Power and Energy Systems, 2012, 35, 83-92.	3.3	108
6	Modified artificial bee colony algorithm based on fuzzy multi-objective technique for optimal power flow problem. Electric Power Systems Research, 2013, 95, 206-213.	2.1	107
7	A Novel Method for Noninvasive Estimation of Utility Harmonic Impedance Based on Complex Independent Component Analysis. IEEE Transactions on Power Delivery, 2015, 30, 1843-1852.	2.9	83
8	Introducing a Novel DC Power Flow Method With Reactive Power Considerations. IEEE Transactions on Power Systems, 2015, 30, 3012-3023.	4.6	79
9	New Transient Stability and LVRT Improvement of Multi-VSG Grids Using the Frequency of the Center of Inertia. IEEE Transactions on Power Systems, 2020, 35, 527-538.	4.6	69
10	Method for determining utility and consumer harmonic contributions based on complex independent component analysis. IET Generation, Transmission and Distribution, 2016, 10, 526-534.	1.4	62
11	A Multi-agent-based voltage control in power systems using distributed reinforcement learning. Simulation, 2011, 87, 581-599.	1.1	58
12	Generation and reserve dispatch in a competitive market using constrained particle swarm optimization. International Journal of Electrical Power and Energy Systems, 2010, 32, 79-86.	3.3	57
13	Decentralized Reactive Power Sharing and Frequency Restoration in Islanded Microgrid. IEEE Transactions on Power Systems, 2017, 32, 2901-2912.	4.6	55
14	Optimal sizing of battery energy storage in a microgrid considering capacity degradation and replacement year. Electric Power Systems Research, 2021, 195, 107170.	2.1	52
15	A novel multi-stage fuel cost minimization in a VSC-based microgrid considering stability, frequency, and voltage constraints. IEEE Transactions on Power Systems, 2013, 28, 931-939.	4.6	51
16	Information Gap Decision Theory-Based Active Distribution System Planning for Resilience Enhancement. IEEE Transactions on Smart Grid, 2020, 11, 4390-4402.	6.2	50
17	On the fast convergence modeling and accurate calculation of PV output energy for operation and planning studies. Energy Conversion and Management, 2015, 89, 497-506.	4.4	47
18	A significant reduction in the costs of battery energy storage systems by use of smart parking lots in the power fluctuation smoothing process of the wind farms. Renewable Energy, 2016, 87, 1-14.	4.3	39

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19	Fault location on a series‐compensated three‐terminal transmission line using deep neural networks. IET Science, Measurement and Technology, 2018, 12, 746-754.	0.9	39
20	A multi-objective voltage stability constrained energy management system for isolated microgrids. International Journal of Electrical Power and Energy Systems, 2020, 117, 105646.	3.3	38
21	Parameter identification of Jiles‐Atherton model using SFLA. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1293-1309.	0.5	37
22	Stochastic approach to represent distributed energy resources in the form of a virtual power plant in energy and reserve markets. IET Generation, Transmission and Distribution, 2016, 10, 1792-1804.	1.4	37
23	A survey on energy storage resources configurations in order to propose an optimum configuration for smoothing fluctuations of future large wind power plants. Renewable and Sustainable Energy Reviews, 2014, 29, 158-172.	8.2	35
24	Accurate fault location and faulted section determination based on deep learning for a parallel‐compensated three‐terminal transmission line. IET Generation, Transmission and Distribution, 2019, 13, 2770-2778.	1.4	35
25	Magnetizing inrush current identification using wavelet based gaussian mixture models. Simulation Modelling Practice and Theory, 2009, 17, 991-1010.	2.2	33
26	Allocation of Centralized Energy Storage System and Its Effect on Daily Grid Energy Generation Cost. IEEE Transactions on Power Systems, 2017, 32, 2406-2416.	4.6	31
27	A New Power Management Scheme for Parallel-Connected PV Systems in Microgrids. IEEE Transactions on Sustainable Energy, 2018, 9, 1605-1617.	5.9	31
28	ADALINE (ADAptive Linear NEuron)-based coordinated control for wind power fluctuations smoothing with reduced BESS (battery energy storage system) capacity. Energy, 2016, 101, 1-8.	4.5	30
29	Multi-stage stochastic framework for simultaneous energy management of slow and fast charge electric vehicles in a restructured smart parking lot. International Journal of Electrical Power and Energy Systems, 2020, 116, 105540.	3.3	29
30	Assessing the Effectiveness of Weighted Information Gap Decision Theory Integrated With Energy Management Systems for Isolated Microgrids. IEEE Transactions on Industrial Informatics, 2020, 16, 5286-5299.	7.2	28
31	Two‐level decision‐making model for a distribution company in day‐ahead market. IET Generation, Transmission and Distribution, 2015, 9, 1308-1315.	1.4	27
32	Incipient Faults Monitoring in Underground Medium Voltage Cables of Distribution Systems Based on a Two-Step Strategy. IEEE Transactions on Power Delivery, 2019, 34, 1647-1655.	2.9	25
33	Simultaneous Distributed Generation Placement, Capacitor Placement, and Reconfiguration using a Modified Teaching-Learning-based Optimization Algorithm. Electric Power Components and Systems, 2016, 44, 1631-1644.	1.0	23
34	Risk‐averse energy management system for isolated microgrids considering generation and demand uncertainties based on information gap decision theory. IET Renewable Power Generation, 2019, 13, 940-951.	1.7	23
35	Modeling and investigation of harmonic losses in optimal power flow and power system locational marginal pricing. Energy, 2014, 68, 140-147.	4.5	22
36	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.	1.4	22

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37	Small-signal stability improvement of an islanded microgrid with electronically-interfaced distributed energy resources in the presence of parametric uncertainties. Electric Power Systems Research, 2018, 160, 151-162.	2.1	22
38	A novel stochastic reserve cost allocation approach of electricity market agents in the restructured power systems. Electric Power Systems Research, 2017, 152, 223-236.	2.1	21
39	A Hybrid Superconducting Fault Current Controller for DG Networks and Microgrids. IEEE Transactions on Applied Superconductivity, 2013, 23, 5604306-5604306.	1.1	20
40	The value of energy storage in optimal non-firm wind capacity connection to power systems. Renewable Energy, 2014, 64, 34-42.	4.3	20
41	A Framework for Optimal Coordinated Primary-Secondary Planning of Distribution Systems Considering MV Distributed Generation. IEEE Transactions on Smart Grid, 2018, 9, 1408-1415.	6.2	20
42	A Novel Approach to Utilize PLC to Detect Corroded and Eroded Segments of Power Transmission Lines. IEEE Transactions on Power Delivery, 2015, 30, 746-754.	2.9	19
43	Optimal multi-objective D-STATCOM placement using MOGA for THD mitigation and cost minimization. Journal of Intelligent and Fuzzy Systems, 2018, 35, 2339-2348.	0.8	19
44	Novel Residential Energy Demand Management Framework Based on Clustering Approach in Energy and Performance-based Regulation Service Markets. Sustainable Cities and Society, 2019, 45, 628-639.	5.1	19
45	Energy management of islanded microgrid by coordinated application of thermal and electrical energy storage systems. International Journal of Energy Research, 2021, 45, 5369-5385.	2.2	19
46	Stochastic load effect on home energy system scheduling optimization. International Transactions on Electrical Energy Systems, 2015, 25, 2412-2426.	1.2	18
47	Stochastic two-stage reliability-based Security Constrained Unit Commitment in smart grid environment. Sustainable Energy, Grids and Networks, 2020, 22, 100348.	2.3	18
48	An economy-oriented DG-based scheme for reliability improvement and loss reduction of active distribution network based on game-theoretic sharing strategy. Sustainable Energy, Grids and Networks, 2021, 27, 100514.	2.3	18
49	Optimal locating and sizing of DG and D-STATCOM using Modified Shuffled Frog Leaping Algorithm. , 2017, , .		17
50	Wind farms participation in electricity markets considering uncertainties. Renewable Energy, 2017, 101, 907-918.	4.3	17
51	A novel strategy for frequency control of islanded greenhouse with cooperative usage of BESS and LED lighting loads. Electrical Engineering, 2021, 103, 265-277.	1.2	17
52	An Investigation of Induction Motor Saturation under Voltage Fluctuation Conditions. Journal of Magnetics, 2017, 22, 306-314.	0.2	17
53	Analytical calculation of detailed model parameters of cast resin dry-type transformers. Energy Conversion and Management, 2011, 52, 2565-2574.	4.4	16
54	A novel â€œSmart Branchâ€•for power quality improvement in microgrids. International Journal of Electrical Power and Energy Systems, 2019, 110, 161-170.	3.3	16

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55	Multi-class EV charging and performance-based regulation service in a residential smart parking lot. Sustainable Energy, Grids and Networks, 2020, 22, 100354.	2.3	16
56	A critical review<scp>on definitions</scp>, indices, and uncertainty characterization<scp>in resiliency€oriented</scp>operation of<scp>power systems</scp>. International Transactions on Electrical Energy Systems, 2021, 31, e12680.	1.2	16
57	Stochastic locational marginal price calculation in distribution systems using game theory and point estimate method. IET Generation, Transmission and Distribution, 2015, 9, 1811-1818.	1.4	15
58	Multi-Objective Scheduling of CHP-Based Microgrids with Cooperation of Thermal and Electrical Storage Units in Restructured Environment. , 2018, , .		15
59	Uniform price-based framework for enhancing power quality and reliability of microgrids using Shapley-value incentive allocation method. Journal of Intelligent and Fuzzy Systems, 2021, 40, 4935-4955.	0.8	15
60	A Novel Discriminative Approach Based on Hidden Markov Models and Wavelet Transform to Transformer Protection. Simulation, 2010, 86, 93-107.	1.1	14
61	A Novel Approach to Adaptive Single Phase Autoreclosure Scheme for EHV Power Transmission Lines Based on Learning Error Function of ADALINE. Simulation, 2008, 84, 601-610.	1.1	13
62	Proper Splitting of Interconnected Power Systems. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 211-220.	0.8	13
63	A modified methodology in electricity tracing problems based on Bialek€™s method. International Journal of Electrical Power and Energy Systems, 2014, 60, 74-81.	3.3	13
64	A new linear model for active loads in islanded inverter-based microgrids. International Journal of Electrical Power and Energy Systems, 2016, 81, 104-113.	3.3	13
65	Multi-stage Frequency Control of a Microgrid in the Presence of Renewable Energy Units. Electric Power Components and Systems, 2017, 45, 159-170.	1.0	13
66	Under frequency load shedding by considering instantaneous voltage and priority of loads. , 2017, , .		13
67	Replacement of natural gas with electricity to improve seismic service resilience: An application to domestic energy utilities in Iran. Energy, 2020, 200, 117509.	4.5	13
68	Risk-Constrained Unit Commitment of Power System Incorporating PV and Wind Farms. ISRN Renewable Energy, 2011, 2011, 1-8.	0.3	13
69	A Novel Scheme for Current Only Directional Overcurrent Protection Based on Post-Fault Current Phasor Estimation. Journal of Electrical Engineering and Technology, 2019, 14, 1517-1527.	1.2	12
70	Application of bifurcation theory in dynamic security constrained optimal dispatch in deregulated power system. Electrical Engineering, 2011, 93, 157-166.	1.2	11
71	Shuffled frog leaping algorithm optimization for AC--DC optimal power flow dispatch. Turkish Journal of Electrical Engineering and Computer Sciences, 2014, 22, 874-892.	0.9	11
72	Unit commitment in smart grids with wind farms using virus colony search algorithm and considering adopted bidding strategy. , 2017, , .		11

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73	Mutually Coupled Transmission Line Parameter Estimation and Voltage Profile Calculation Using One Terminal Data Sampling and Virtual Black-Box. IEEE Access, 2019, 7, 106805-106812.	2.6	11
74	Variable cost model predictive control strategies for providing highâ€quality power to AC microgrids. IET Generation, Transmission and Distribution, 2019, 13, 3623-3633.	1.4	11
75	Security constrained multiâ€objective biâ€directional integrated electricity and natural gas coâ€expansion planning considering multiple uncertainties of wind energy and system demand. IET Renewable Power Generation, 2020, 14, 1395-1404.	1.7	10
76	A novel economic model for enhancing technical conditions of microgrids and distribution networks utilizing an iterative cooperative game-based algorithm. Sustainable Energy Technologies and Assessments, 2021, 45, 101135.	1.7	10
77	Time domain single-phase reclosure scheme for transmission lines based on dual-Gaussian mixture models. Engineering Applications of Artificial Intelligence, 2013, 26, 625-632.	4.3	9
78	Hybrid Big Bang-Big Crunch Algorithm for solving non-convex Economic Load Dispatch problems. , 2017, , .		9
79	Investigation and enhancement of SFCL impacts on DFIG-based wind turbine during fault and post-fault. International Transactions on Electrical Energy Systems, 2017, 27, e2253.	1.2	9
80	Multiphase transmission line modeling for voltage sag estimation. Electrical Engineering, 2010, 92, 99-109.	1.2	8
81	A new method of single-phase active power filter for AC electric railway system based on Hilbert transform. , 2013, , .		8
82	Islanding Detection in Unbalanced Distribution Systems with Doubly Fed Induction Generator Based Distributed Generation Using Wavelet Transform. Electric Power Components and Systems, 2015, 43, 866-878.	1.0	8
83	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.	1.5	8
84	Payment cost minimisation auction for deregulated electricity market using mixedâ€integer linear programming approach. IET Generation, Transmission and Distribution, 2013, 7, 907-918.	1.4	7
85	Optimal Allocation and Operating Point of DG Units in Radial Distribution Network Considering Load Pattern. Electric Power Components and Systems, 2017, 45, 1287-1297.	1.0	7
86	Clustering of voltage control areas in power system using shuffled frog-leaping algorithm. Electrical Engineering, 2010, 92, 269-282.	1.2	6
87	Fault ride-through capability improvement of doubly fed induction generator-based wind turbine using static volt ampere reactive compensator. Journal of Renewable and Sustainable Energy, 2015, 7, 023134.	0.8	6
88	Optimal integration of Demand Response Programs and electric vehicles into the SCUC. Sustainable Energy, Grids and Networks, 2021, 26, 100414.	2.3	6
89	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.	0.5	6
90	Reliable prediction of Hopf bifurcation in power systems. Electrical Engineering, 2009, 91, 61-68.	1.2	5

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91	Comparison of shuffled frog leaping algorithm and PSO in data clustering with constraint for grouping voltage control areas in power systems. European Transactions on Electrical Power, 2011, 21, 1763-1782.	1.0	5
92	Using the Instantaneous Power Theory in order to control the current in the parallel active filter to compensate reactive power and reduction of harmonics. , 2012, , .		5
93	Analysis of lightning transient in 2 Ã— 25 kV AC autotransformer traction system. International Journal of Power and Energy Conversion, 2018, 9, 89.	0.2	5
94	Imperialistic Competitive Algorithm Based Unit Commitment Considering Risk of Cascading Blackout. Electric Power Components and Systems, 2015, 43, 374-383.	1.0	4
95	Grid reconnection detection for synchronous distributed generators in stand-alone operation. International Transactions on Electrical Energy Systems, 2015, 25, 138-154.	1.2	4
96	A comprehensive approach for wind turbine generation allocation with accurate analysis of load curtailment using nested programming. Energy, 2017, 133, 1063-1078.	4.5	4
97	Determining maximum penetration level of distributed generation sources in distribution network considering harmonic limits and maintain protection coordination scheme. , 2017, , .		4
98	A Novel Direct Power Flow for Distribution Systems with Voltage-Controlled Buses. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2018, 42, 149-160.	1.5	4
99	On Optimal Cost Planning of Low Voltage Direct Current Power Distribution Networks. Electric Power Components and Systems, 2018, 46, 1019-1028.	1.0	4
100	Coordination of hybrid energy storage system, photovoltaic systems, smart lighting loads, and thermostatically controlled loads for microgrid frequency control. International Transactions on Electrical Energy Systems, 2021, 31, e12976.	1.2	4
101	Cooperative utilization of electrical and thermal storage systems for uninterruptible supply of a greenhouse Microgrid. , 2021, , .		4
102	Sensitivity Analysis on Ladder Network Equivalent Circuit Parameters of Power Transformer. Electric Power Components and Systems, 2015, 43, 2168-2177.	1.0	3
103	An Adaptive Approach for Simulation of Inrush Current in Three-phase Transformers Considering Hysteresis Effects. Electric Power Components and Systems, 2016, 44, 673-682.	1.0	3
104	Tapping on the Aggregate Flexibility of Heterogeneous Load Groups for EV Fast Charge Accommodation in Urban Power Distribution Networks. Sustainable Cities and Society, 2021, 74, 103169.	5.1	3
105	New strategy for battery sizing regarding the impact of discharge durations on its capacity. , 2021, , .		3
106	The left vs right side comparison of the power-voltage characteristics for contributing the photovoltaic units to participate in frequency regulation of the distribution networks. , 2021, , .		3
107	Optimized operation and maintenance costs to improve system reliability by decreasing the failure rate of distribution lines. Turkish Journal of Electrical Engineering and Computer Sciences, 2013, 21, 2191-2204.	0.9	2
108	Home load and solar power management under real-time prices. , 2014, , .		2

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109	New approach for sizing of overloaded-capable battery for Microgrid frequency control using cooperation of PVs, BESS and smart lighting loads. Journal of Intelligent and Fuzzy Systems, 2020, 39, 4095-4109.	0.8	2
110	A New Stability Index for Induction Motors Three-Phase Fault Recovery in Industrial Networks Based on Post-Fault Slip Estimation. IEEE Transactions on Power Delivery, 2021, 36, 1471-1481.	2.9	2
111	Cost comparison of various battery technologies for hybrid energy storage system application in an islanded Microgrid. , 2021, , .		2
112	Improvements in power system transient simulation by application of trigonometric trapezoidal rule. Computer Applications in Engineering Education, 2010, 18, 277-289.	2.2	1
113	Optimum design of high voltage bushings by rational BÃ©zier curves. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2012, 31, 1901-1916.	0.5	1
114	A risk-considered stochastic home load management under real-time electricity prices. , 2013, , .		1
115	Calculation of inrush current using adopted parameters of the hysteresis loop. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 1794-1808.	0.5	1
116	Identification of the Critical Characteristics of Different Types of Voltage Sags for Synchronous Machine Torque Oscillations. Electric Power Components and Systems, 2014, 42, 1347-1355.	1.0	1
117	Utilization of renewable resources for scheduling the hourly production in day-ahead markets and its effect on the nodal price. , 2017, , .		1
118	Optimal Energy Dispatch of Smart Home Equipped with PV, WT, and ESS Using Load Control under RTP. , 2018, , .		1
119	Optimal Investment on DG and ESS for Smart Homes under Demand Response. , 2019, , .		1
120	Model predictive controlâ€based smart impedance for harmonic load freewheeling. IET Generation, Transmission and Distribution, 2019, 13, 3803-3813.	1.4	1
121	Analysis of the Effects of High-Voltage Transmission Line on Human Stress and Attention Through Electroencephalography (EEG). Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 211-218.	1.5	1
122	Online tracking of voltage flicker for inverterâ€based distributed generation using Teager energy operator. International Transactions on Electrical Energy Systems, 2020, 30, e12292.	1.2	1
123	A novel strategy for economic management of distribution networks in bilateral energy markets contemplating electrical storage, thermal generations and distributed generations private behavior. , 2021, , .		1
124	A New Strategy for Mitigating The Frequency Deviation in Distribution networks and Microgrids. , 2021, , .		1
125	Energy cost management of domestic customers in real-time electricity pricing environments. , 2013, , .		0
126	A Methodology for Computational Efficiency Improvement of Z-Matrix in Power System Fault Analysis Using Evolutionary Algorithms. Research Journal of Applied Sciences, Engineering and Technology, 2013, 6, 1711-1719.	0.1	0

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127	Robust power sharing control of an autonomous microgrid featuring secondary controller. , 2016, , .		0
128	Demand-Side Energy Management in an Administrative Building by Considering Generation Optimization. , 2018, , .		0
129	A Method for Harmonic Power Tracing by Using Upstream and Downstream Distribution Matrices. Electric Power Components and Systems, 2019, 47, 1169-1179.	1.0	0