

Farrokh Aminifar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

4,730⁰
citations

39
h-index

65
g-index

146
ext. papers

6,046
ext. citations

5.7
avg, IF

6.37
L-index

#	Paper	IF	Citations
132	Unlocking the value of flexibility of behind-the-meter prosumers: An overview of mechanisms to esteemed trends. <i>Electricity Journal</i> , 2022 , 35, 107126	2.6	0
131	State-of-the-Art in Synchrophasor Measurement Technology Applications in Distribution Networks and Microgrids. <i>IEEE Access</i> , 2021 , 9, 153875-153892	3.5	2
130	Distributed generation hosting capacity in electric distribution network in the presence of correlated uncertainties. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 836-848	2.5	2
129	Optimal controlled islanding considering frequency-arresting and frequency-stabilising constraints: A graph theory-assisted approach. <i>IET Generation, Transmission and Distribution</i> , 2021 , 15, 2044-2060	2.5	1
128	Dual variable decomposition to discriminate the cost imposed by inflexible units in electricity markets. <i>Applied Energy</i> , 2021 , 287, 116595	10.7	2
127	A receding horizon data-driven chance-constrained approach for energy flexibility trading in multi-microgrid distribution network. <i>IET Renewable Power Generation</i> , 2021 , 15, 2860-2877	2.9	4
126	Resilient-enhancing critical load restoration using mobile power sources with incomplete information. <i>Sustainable Energy, Grids and Networks</i> , 2021 , 26, 100418	3.6	3
125	Unbalanced Source Detection in Power Distribution Networks by Negative Sequence Apparent Powers. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 481-483	4.3	7
124	Transactive Energy Market Mechanism With Loss Implication. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 1215-1223	10.7	8
123	Machine learning for protection of distribution networks and power electronics-interfaced systems. <i>Electricity Journal</i> , 2021 , 34, 106886	2.6	5
122	Data-Driven Classifier for Extreme Outage Prediction Based On Bayes Decision Theory. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	2
121	Distributed Robust Secondary Control of Islanded Microgrids: Voltage, Frequency, and Power Sharing. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 2501-2509	4.3	2
120	Digital filter-based grid synchronization for autonomous microgrids. <i>IET Renewable Power Generation</i> , 2021 , 15, 3732	2.9	2
119	Exploiting the Potentials of HVAC Systems in Transactive Energy Markets. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4039-4048	10.7	7
118	Phase Identification of Single-Phase Customers and PV Panels via Smart Meter Data. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 4543-4552	10.7	0
117	A two-stage resilience improvement planning for power distribution systems against hurricanes. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 132, 107214	5.1	8
116	Energy pricing and demand scheduling in retail market: how microgrids integration affects the market. <i>IET Smart Grid</i> , 2020 , 3, 309-317	2.7	3

115	. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3384-3393	10.7	12
114	. <i>IEEE Transactions on Sustainable Energy</i> , 2020 , 11, 1995-2002	8.2	6
113	An analytic methodology to determine generators redispatch for proactive damping of critical electromechanical oscillations. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 123, 106301	5.1	3
112	The Proliferation of Solar Photovoltaics: Their Impact on Widespread Deployment of Electric Vehicles. <i>IEEE Electrification Magazine</i> , 2020 , 8, 79-91	2.6	6
111	Unmanned Aerial Vehicles in Modern Power Systems: Technologies, Use Cases, Outlooks, and Challenges. <i>IEEE Electrification Magazine</i> , 2020 , 8, 107-116	2.6	2
110	Optimal Reconfiguration of Distribution Network Using μ PMU Measurements: A Data-Driven Stochastic Robust Optimization. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 420-428	10.7	21
109	Impact of inverter-based DERs integration on protection, control, operation, and planning of electrical distribution grids. <i>Electricity Journal</i> , 2019 , 32, 43-56	2.6	33
108	Power system flexibility: an overview of emergence to evolution. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 987-1007	4	46
107	Tri-Level Robust Investment Planning of DERs in Distribution Networks With AC Constraints. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3749-3757	7	17
106	Multi-stage equilibrium in electricity pool with flexible ramp market. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 109, 661-671	5.1	14
105	Incorporation of Controlled Islanding Scenarios and Complex Substations in Optimal WAMS Design. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 3408-3416	7	8
104	Congestion management through distributed generations and energy storage systems. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e12018	2.2	14
103	Non-Stationary Stabilized Fast Transversal RLS Filter for Online Power System Modal Estimation. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2744-2754	7	5
102	Optimal energy management in multi-carrier microgrids: an MILP approach. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 876-886	4	19
101	Power systems wide-area voltage stability assessment considering dissimilar load variations and credible contingencies. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019 , 7, 78-87	4	13
100	Metrics and quantitative framework for assessing microgrid resilience against windstorms. <i>International Journal of Electrical Power and Energy Systems</i> , 2019 , 104, 716-723	5.1	83
99	A Hierarchical Regionalization-Based Load Shedding Plan to Recover Frequency and Voltage in Microgrid. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 3818-3827	10.7	11
98	An Adaptive Reclosing Scheme for Preserving Dynamic Security in Low-Inertia Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6228-6236	10.7	3

97	Exploiting the Potential of Energy Hubs in Power Systems Regulation Services. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 5600-5608	10.7	11
96	Guest Editorial Special Section on Optimization Techniques in Renewable Energy System Planning, Design, Operation, and Control. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 330-332	8.2	1
95	Energy storage allocation in wind integrated distribution networks: An MILP-Based approach. <i>Renewable Energy</i> , 2019 , 134, 1042-1055	8.1	21
94	Resilience-Promoting Proactive Scheduling Against Hurricanes in Multiple Energy Carrier Microgrids. <i>IEEE Transactions on Power Systems</i> , 2019 , 34, 2160-2168	7	47
93	Adaptive Protection for Preserving Microgrid Security. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 592-600	10.7	23
92	Dual-Setting Directional Overcurrent Relays for Protecting Automated Distribution Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 730-740	11.9	38
91	Hypothesis Testing for Privacy of Smart Meters With Side Information. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2059-2067	10.7	8
90	Contingency-Constrained Optimal Placement of Micro-PMUs and Smart Meters in Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 1889-1897	10.7	26
89	Adaptive Control of Microgrid Security. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3909-3910	10.7	18
88	Short-circuit-constrained transmission expansion planning with bus splitting flexibility. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 217-226	2.5	15
87	. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3745-3756	7	9
86	An Adaptive Wide-Area Load Shedding Scheme Incorporating Power System Real-Time Limitations. <i>IEEE Systems Journal</i> , 2018 , 12, 759-767	4.3	31
85	An Adaptive Auto-Reclosing Scheme to Preserve Transient Stability of Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 2638-2646	10.7	16
84	Towards Proactive Scheduling of Microgrids Against Extreme Floods. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 3900-3902	10.7	55
83	Toward a Consensus on the Definition and Taxonomy of Power System Resilience. <i>IEEE Access</i> , 2018 , 6, 32035-32053	3.5	131
82	. <i>IEEE Electrification Magazine</i> , 2018 , 6, 64-72	2.6	13
81	Resilience-Oriented Proactive Management of Microgrids Against Windstorms. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4275-4284	7	94
80	A Hierarchical Response-Based Approach to the Load Restoration Problem. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 1700-1709	10.7	44

79	. <i>IEEE Transactions on Power Delivery</i> , 2017 , 32, 556-564	4.3	22
78	Application of WAMS and SCADA Data to Online Modeling of Series-Compensated Transmission Lines. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 1968-1976	10.7	18
77	A New Methodology for Circuit Analysis with Reverse Analysis Capability. <i>Journal of Circuits, Systems and Computers</i> , 2017 , 26, 1750101	0.9	1
76	Coordinated multi-area energy and regulation joint dispatch under wind power uncertainty. <i>Journal of Renewable and Sustainable Energy</i> , 2017 , 9, 023303	2.5	5
75	Transmission system wide-area back-up protection using current phasor measurements. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 92, 93-103	5.1	26
74	Networked Microgrids for Enhancing the Power System Resilience. <i>Proceedings of the IEEE</i> , 2017 , 105, 1289-1310	14.3	254
73	Microgrid dynamic security: Challenges, solutions and key considerations. <i>Electricity Journal</i> , 2017 , 30, 43-51	2.6	23
72	Cybersecurity in Distributed Power Systems. <i>Proceedings of the IEEE</i> , 2017 , 105, 1367-1388	14.3	85
71	Techno-Economic Collaboration of PEV Fleets in Energy Management of Microgrids. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3833-3841	7	49
70	Combinational scheme for voltage and frequency recovery in an islanded distribution system. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2899-2906	2.5	18
69	Microgrid Scheduling With Uncertainty: The Quest for Resilience. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2849-2858	10.7	178
68	Guest Editorial Power Grid Resilience. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2805-2806	10.7	3
67	Energy and Reserve Scheduling Under Wind Power Uncertainty: An Adjustable Interval Approach. <i>IEEE Transactions on Smart Grid</i> , 2016 , 7, 2943-2952	10.7	45
66	Direct drive surge wave energy converter with grid integration functionality. <i>International Transactions on Electrical Energy Systems</i> , 2016 , 26, 1066-1084	2.2	2
65	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4135-4143	7	76
64	Multi-area market clearing in wind-integrated interconnected power systems: A fast parallel decentralized method. <i>Energy Conversion and Management</i> , 2016 , 113, 131-142	10.6	27
63	Reliability assessment of HV substations equipped with fault current limiter considering changes of failure rate of components. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 1504-1509	2.5	9
62	MILP Formulation for Transmission Expansion Planning With Short-Circuit Level Constraints. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3109-3118	7	20

61	Front Lines Against the Darkness: Enhancing the Resilience of the Electricity Grid Through Microgrid Facilities. <i>IEEE Electrification Magazine</i> , 2016 , 4, 18-24	2.6	116
60	Macroprotections for Microgrids: Toward a New Protection Paradigm Subsequent to Distributed Energy Resource Integration. <i>IEEE Industrial Electronics Magazine</i> , 2016 , 10, 6-18	6.2	29
59	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2166-2175	10.7	49
58	Optimal Electricity Procurement in Smart Grids With Autonomous Distributed Energy Resources. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2975-2984	10.7	22
57	. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1077-1085	4.3	50
56	Optimal distributed static series compensator placement for enhancing power system loadability and reliability. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 1043-1050	2.5	15
55	2015 ,		3
54	Guest Editorial Special Section on Monitoring, Visualization, and State Estimation for Distribution Systems. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1999-2001	10.7	0
53	Synchrophasor-Based Wide-Area Backup Protection Scheme with Data Requirement Analysis. <i>IEEE Transactions on Power Delivery</i> , 2015 , 30, 1410-1419	4.3	65
52	2015 ,		1
51	A novel efficient model for the power flow analysis of power systems. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2015 , 23, 52-66	0.9	10
50	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2157-2165	10.7	67
49	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 441-449	10.7	32
48	Communication-Constrained Regionalization of Power Systems for Synchrophasor-Based Wide-Area Backup Protection Scheme. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 1530-1538	10.7	25
47	. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 1961-1968	10.7	66
46	Toward Wide-Area Oscillation Control Through Doubly-Fed Induction Generator Wind Farms. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 2985-2992	7	89
45	. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 2473-2475	10.7	19
44	Reliability Modeling of Run-of-the-River Power Plants in Power System Adequacy Studies. <i>IEEE Transactions on Sustainable Energy</i> , 2014 , 5, 1278-1286	8.2	9

43	Smart Distribution Grid: Optimal Day-Ahead Scheduling With Reconfigurable Topology. <i>IEEE Transactions on Smart Grid</i> , 2014 , 5, 2402-2411	10.7	103
42	A new formulation for power system reliability assessment with AC constraints. <i>International Journal of Electrical Power and Energy Systems</i> , 2014 , 56, 298-306	5.1	23
41	. <i>IEEE Transactions on Power Delivery</i> , 2014 , 29, 345-352	4.3	56
40	Synchrophasor Measurement Technology in Power Systems: Panorama and State-of-the-Art. <i>IEEE Access</i> , 2014 , 2, 1607-1628	3.5	164
39	Optimal parking lot placement considering operational and security limitations using COA 2014 ,		2
38	Reliability-based maintenance scheduling of generating units in restructured power systems. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2014 , 22, 1147-1158	0.9	2
37	Probabilistic Home Load Controlling Considering Plug-in Hybrid Electric Vehicle Uncertainties 2014 , 117-132		6
36	On-line assessment of transmission line thermal rating using PMU data 2014 ,		3
35	An improved method for estimation of inertia constant of power system based on polynomial approximation 2014 ,		6
34	Power System Dynamic State Estimation With Synchronized Phasor Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 352-363	5.2	79
33	Generation expansion and retirement planning based on the stochastic programming. <i>Electric Power Systems Research</i> , 2013 , 104, 138-145	3.5	34
32	Practical aspects of phasor measurement unit (PMU) installation in power grids 2013 ,		2
31	A new approach for AC state estimation based on a linear network model 2013 ,		2
30	A Comprehensive Scheme for Reliability Centered Maintenance in Power Distribution Systems Part I: Methodology. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 761-770	4.3	79
29	A Comprehensive Scheme for Reliability-Centered Maintenance in Power Distribution Systems Part II: Numerical Analysis. <i>IEEE Transactions on Power Delivery</i> , 2013 , 28, 771-778	4.3	43
28	Wide-area power oscillation damping with a fuzzy controller compensating the continuous communication delays. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1997-2005	7	98
27	Optimal PMU Placement Based on Probabilistic Cost/Benefit Analysis. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 566-567	7	43
26	2013 ,		2

25	Load commitment in a smart home. <i>Applied Energy</i> , 2012 , 96, 45-54	10.7	171
24	Fuzzy Dynamic Thermal Rating of Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 1885-1892	4.3	37
23	. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 2233-2241	7	126
22	Impacts of plug-in hybrid electric vehicle uncertainty and grid unavailability on home load management 2012 ,		9
21	Compromising Wind and Solar Energies From the Power System Adequacy Viewpoint. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 2368-2376	7	34
20	. <i>IEEE Transactions on Power Delivery</i> , 2012 , 27, 610-617	4.3	39
19	Impact of WAMS Malfunction on Power System Reliability Assessment. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 1302-1309	10.7	81
18	Guest Editorial Special Section on Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2012 , 3, 1857-1859	10.7	7
17	A non-iterative approach for AC state estimation using line flow based model. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 43, 1413-1420	5.1	12
16	Probabilistic Worth Assessment of Distributed Static Series Compensators. <i>IEEE Transactions on Power Delivery</i> , 2011 , 26, 1734-1743	4.3	8
15	Probabilistic Multistage PMU Placement in Electric Power Systems. <i>IEEE Transactions on Power Delivery</i> , 2011 , 26, 841-849	4.3	115
14	Observability enhancement by optimal PMU placement considering random power system outages. <i>Energy Systems</i> , 2011 , 2, 45-65	1.7	42
13	A fast load shedding algorithm to relieve transmission system overloads 2011 ,		3
12	Design of an Asymmetrical Three-phase Inverter for Load Balancing and Power Factor Correction Based on Power Analysis. <i>Journal of Electrical Engineering and Technology</i> , 2011 , 6, 293-301	1.4	0
11	Reliability Modeling of PMUs Using Fuzzy Sets. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 2384-2391	4.3	79
10	2010 ,		9
9	Reliability Evaluation of an HVDC Transmission System Tapped by a VSC Station. <i>IEEE Transactions on Power Delivery</i> , 2010 , 25, 1962-1970	4.3	45
8	Contingency-Constrained PMU Placement in Power Networks. <i>IEEE Transactions on Power Systems</i> , 2010 , 25, 516-523	7	263

7	Optimal Placement of Phasor Measurement Units Using Immunity Genetic Algorithm. <i>IEEE Transactions on Power Delivery</i> , 2009 , 24, 1014-1020	4.3	228
6	Unit Commitment With Probabilistic Spinning Reserve and Interruptible Load Considerations. <i>IEEE Transactions on Power Systems</i> , 2009 , 24, 388-397	7	97
5	Effect of Interline Power Flow Controller (IPFC) on interconnected power systems adequacy 2008 ,		3
4	A Novel Straightforward Unit Commitment Method for Large-Scale Power Systems. <i>IEEE Transactions on Power Systems</i> , 2007 , 22, 2134-2143	7	39
3	Extended reliability model of a unified power flow controller. <i>IET Generation, Transmission and Distribution</i> , 2007 , 1, 896	2.5	19
2	Changing the regulations for regulating the changes: From distribution system operator (DSO) to electricity distribution stakeholders organization (EDSO). <i>Energy and Environment</i> ,0958305X2110738	2.4	1
1	A review of power system protection and asset management with machine learning techniques. <i>Energy Systems</i> ,1	1.7	5