Farrokh Aminifar

List of Publications by Citations

132 papers	4,730 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	Contingency-Constrained PMU Placement in Power Networks. *IEEE Transactions on Power Systems*, **2010**, 25, 516-523	7	263
131	Networked Microgrids for Enhancing the Power System Resilience. *Proceedings of the IEEE*, **2017**, 105, 1289-1310	14.3	254
130	Optimal Placement of Phasor Measurement Units Using Immunity Genetic Algorithm. *IEEE Transactions on Power Delivery*, **2009**, 24, 1014-1020	4.3	228
129	Microgrid Scheduling With Uncertainty: The Quest for Resilience. *IEEE Transactions on Smart Grid*, **2016**, 7, 2849-2858	10.7	178
128	Load commitment in a smart home. *Applied Energy*, **2012**, 96, 45-54	10.7	171
127	Synchrophasor Measurement Technology in Power Systems: Panorama and State-of-the-Art. *IEEE Access*, **2014**, 2, 1607-1628	3.5	164
126	Toward a Consensus on the Definition and Taxonomy of Power System Resilience. *IEEE Access*, **2018**, 6, 32035-32053	3.5	131
125	. *IEEE Transactions on Power Systems*, **2012**, 27, 2233-2241	7	126
124	Front Lines Against the Darkness: Enhancing the Resilience of the Electricity Grid Through Microgrid Facilities. *IEEE Electrification Magazine*, **2016**, 4, 18-24	2.6	116
123	Probabilistic Multistage PMU Placement in Electric Power Systems. *IEEE Transactions on Power Delivery*, **2011**, 26, 841-849	4.3	115
122	Smart Distribution Grid: Optimal Day-Ahead Scheduling With Reconfigurable Topology. *IEEE Transactions on Smart Grid*, **2014**, 5, 2402-2411	10.7	103
121	Wide-area power oscillation damping with a fuzzy controller compensating the continuous communication delays. *IEEE Transactions on Power Systems*, **2013**, 28, 1997-2005	7	98
120	Unit Commitment With Probabilistic Spinning Reserve and Interruptible Load Considerations. *IEEE Transactions on Power Systems*, **2009**, 24, 388-397	7	97
119	Resilience-Oriented Proactive Management of Microgrids Against Windstorms. *IEEE Transactions on Power Systems*, **2018**, 33, 4275-4284	7	94
118	Toward Wide-Area Oscillation Control Through Doubly-Fed Induction Generator Wind Farms. *IEEE Transactions on Power Systems*, **2014**, 29, 2985-2992	7	89
117	Cybersecurity in Distributed Power Systems. *Proceedings of the IEEE*, **2017**, 105, 1367-1388	14.3	85
116	Metrics and quantitative framework for assessing microgrid resilience against windstorms. *International Journal of Electrical Power and Energy Systems*, **2019**, 104, 716-723	5.1	83

115	Impact of WAMS Malfunction on Power System Reliability Assessment. *IEEE Transactions on Smart Grid*, **2012**, 3, 1302-1309	10.7	81
114	Power System Dynamic State Estimation With Synchronized Phasor Measurements. *IEEE Transactions on Instrumentation and Measurement*, **2014**, 63, 352-363	5.2	79
113	A Comprehensive Scheme for Reliability Centered Maintenance in Power Distribution SystemsPart I: Methodology. *IEEE Transactions on Power Delivery*, **2013**, 28, 761-770	4.3	79
112	Reliability Modeling of PMUs Using Fuzzy Sets. *IEEE Transactions on Power Delivery*, **2010**, 25, 2384-2391	4.3	79
111	. *IEEE Transactions on Power Systems*, **2016**, 31, 4135-4143	7	76
110	. *IEEE Transactions on Smart Grid*, **2015**, 6, 2157-2165	10.7	67
109	. *IEEE Transactions on Smart Grid*, **2014**, 5, 1961-1968	10.7	66
108	Synchrophasor-Based Wide-Area Backup Protection Scheme with Data Requirement Analysis. *IEEE Transactions on Power Delivery*, **2015**, 30, 1410-1419	4.3	65
107	. *IEEE Transactions on Power Delivery*, **2014**, 29, 345-352	4.3	56
106	Towards Proactive Scheduling of Microgrids Against Extreme Floods. *IEEE Transactions on Smart Grid*, **2018**, 9, 3900-3902	10.7	55
105	. *IEEE Transactions on Power Delivery*, **2015**, 30, 1077-1085	4.3	50
104	Techno-Economic Collaboration of PEV Fleets in Energy Management of Microgrids. *IEEE Transactions on Power Systems*, **2017**, 32, 3833-3841	7	49
103	. *IEEE Transactions on Smart Grid*, **2015**, 6, 2166-2175	10.7	49
102	Resilience-Promoting Proactive Scheduling Against Hurricanes in Multiple Energy Carrier Microgrids. *IEEE Transactions on Power Systems*, **2019**, 34, 2160-2168	7	47
101	Power system flexibility: an overview of emergence to evolution. *Journal of Modern Power Systems and Clean Energy*, **2019**, 7, 987-1007	4	46
100	Energy and Reserve Scheduling Under Wind Power Uncertainty: An Adjustable Interval Approach. *IEEE Transactions on Smart Grid*, **2016**, 7, 2943-2952	10.7	45
99	Reliability Evaluation of an HVDC Transmission System Tapped by a VSC Station. *IEEE Transactions on Power Delivery*, **2010**, 25, 1962-1970	4.3	45
98	A Hierarchical Response-Based Approach to the Load Restoration Problem. *IEEE Transactions on Smart Grid*, **2017**, 8, 1700-1709	10.7	44

97	A Comprehensive Scheme for Reliability-Centered Maintenance in Power Distribution Systems-Part II: Numerical Analysis. *IEEE Transactions on Power Delivery*, **2013**, 28, 771-778	4.3	43
96	Optimal PMU Placement Based on Probabilistic Cost/Benefit Analysis. *IEEE Transactions on Power Systems*, **2013**, 28, 566-567	7	43
95	Observability enhancement by optimal PMU placement considering random power system outages. *Energy Systems*, **2011**, 2, 45-65	1.7	42
94	. *IEEE Transactions on Power Delivery*, **2012**, 27, 610-617	4.3	39
93	A Novel Straightforward Unit Commitment Method for Large-Scale Power Systems. *IEEE Transactions on Power Systems*, **2007**, 22, 2134-2143	7	39
92	Dual-Setting Directional Overcurrent Relays for Protecting Automated Distribution Networks. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 730-740	11.9	38
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90	Generation expansion and retirement planning based on the stochastic programming. *Electric Power Systems Research*, **2013**, 104, 138-145	3.5	34
89	Compromising Wind and Solar Energies From the Power System Adequacy Viewpoint. *IEEE Transactions on Power Systems*, **2012**, 27, 2368-2376	7	34
88	Impact of inverter-based DERs integration on protection, control, operation, and planning of electrical distribution grids. *Electricity Journal*, **2019**, 32, 43-56	2.6	33
87	. *IEEE Transactions on Smart Grid*, **2015**, 6, 441-449	10.7	32
86	An Adaptive Wide-Area Load Shedding Scheme Incorporating Power System Real-Time Limitations. *IEEE Systems Journal*, **2018**, 12, 759-767	4.3	31
85	Macroprotections for Microgrids: Toward a New Protection Paradigm Subsequent to Distributed Energy Resource Integration. *IEEE Industrial Electronics Magazine*, **2016**, 10, 6-18	6.2	29
84	Multi-area market clearing in wind-integrated interconnected power systems: A fast parallel decentralized method. *Energy Conversion and Management*, **2016**, 113, 131-142	10.6	27
83	Transmission system wide-area back-up protection using current phasor measurements. *International Journal of Electrical Power and Energy Systems*, **2017**, 92, 93-103	5.1	26
82	Contingency-Constrained Optimal Placement of Micro-PMUs and Smart Meters in Microgrids. *IEEE Transactions on Smart Grid*, **2019**, 10, 1889-1897	10.7	26
81	Communication-Constrained Regionalization of Power Systems for Synchrophasor-Based Wide-Area Backup Protection Scheme. *IEEE Transactions on Smart Grid*, **2015**, 6, 1530-1538	10.7	25
80	Microgrid dynamic security: Challenges, solutions and key considerations. *Electricity Journal*, **2017**, 30, 43-51	2.6	23

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70	Extended reliability model of a unified power flow controller. *IET Generation, Transmission and Distribution*, **2007**, 1, 896	2.5	19
69	Application of WAMS and SCADA Data to Online Modeling of Series-Compensated Transmission Lines. *IEEE Transactions on Smart Grid*, **2017**, 8, 1968-1976	10.7	18
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43	Guest Editorial Special Section on Microgrids. *IEEE Transactions on Smart Grid*, **2012**, 3, 1857-1859	10.7	7
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28	On-line assessment of transmission line thermal rating using PMU data **2014**,		3
27	A fast load shedding algorithm to relieve transmission system overloads **2011**,		3
26	Effect of Interline Power Flow Controller (IPFC) on interconnected power systems adequacy **2008**,		3

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4	Guest Editorial Special Section on Monitoring, Visualization, and State Estimation for Distribution Systems. *IEEE Transactions on Smart Grid*, **2015**, 6, 1999-2001	10.7	0
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1	Unlocking the value of flexibility of behind-the-meter prosumers: An overview of mechanisms to esteemed trends. *Electricity Journal*, **2022**, 35, 107126	2.6	0