

# Salman Mohagheghi Mohagheghi

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

3,593  
citations

304368

22  
h-index

414034

32  
g-index

95  
all docs

95  
docs citations

95  
times ranked

3267  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle Swarm Optimization: Basic Concepts, Variants and Applications in Power Systems. IEEE Transactions on Evolutionary Computation, 2008, 12, 171-195.	7.5	1,893
2	Communication protocols and networks for power systems-current status and future trends. , 2009, , .		96
3	A Proportional-Integrator Type Adaptive Critic Design-Based Neurocontroller for a Static Compensator in a Multimachine Power System. IEEE Transactions on Industrial Electronics, 2007, 54, 86-96.	5.2	83
4	Temperature-Dependent Power Flow. IEEE Transactions on Power Systems, 2013, 28, 4007-4018.	4.6	80
5	Demand Response Architecture: Integration into the Distribution Management System. , 2010, , .		77
6	Condition Monitoring of Power Electronic Circuits Using Artificial Neural Networks. IEEE Transactions on Power Electronics, 2009, 24, 2363-2367.	5.4	65
7	Optimal Wide Area Controller and State Predictor for a Power System. IEEE Transactions on Power Systems, 2007, 22, 693-705.	4.6	61
8	Adaptive Critic Design Based Neuro-Fuzzy Controller for a Static Compensator in a Multimachine Power System. IEEE Transactions on Power Systems, 2006, 21, 1744-1754.	4.6	59
9	Voltage Quality Assessment in a Distribution System With Distributed Generation”A Probabilistic Load Flow Approach. IEEE Transactions on Power Delivery, 2013, 28, 1652-1662.	2.9	57
10	Intelligent Demand Response Scheme for Customer Side Load Management. , 2008, , .		54
11	Vulnerability assessment of the power grid against progressing wildfires. Fire Safety Journal, 2015, 73, 20-28.	1.4	53
12	Impact of demand response on distribution system reliability. , 2011, , .		45
13	Impact of Rooftop Photovoltaics on the Distribution System. Journal of Renewable Energy, 2020, 2020, 1-23.	2.1	42
14	Managing Industrial Energy Intelligently: Demand Response Scheme. IEEE Industry Applications Magazine, 2014, 20, 53-62.	0.3	41
15	A multi-objective optimization framework for energy and asset management in an industrial Microgrid. Journal of Cleaner Production, 2016, 139, 1326-1338.	4.6	41
16	Phasor measurement units for the distribution grid: Necessity and benefits. , 2013, , .		39
17	Applications of IEC 61850 in distribution automation. , 2011, , .		38
18	A risk-averse security-constrained optimal power flow for a power grid subject to hurricanes. Electric Power Systems Research, 2014, 116, 408-418.	2.1	38

#	ARTICLE	IF	CITATIONS
19	Optimal resilient power grid operation during the course of a progressing wildfire. International Journal of Electrical Power and Energy Systems, 2015, 73, 843-852.	3.3	34
20	Optimal Energy Management in an Industrial Plant Using On-Site Generation and Demand Scheduling. IEEE Transactions on Industry Applications, 2016, 52, 1945-1952.	3.3	34
21	Toward smart distribution management by integrating advanced metering infrastructure. Electric Power Systems Research, 2013, 105, 51-56.	2.1	33
22	An Automation Scheme for Emergency Operation of a Multi-Microgrid Industrial Park. IEEE Transactions on Industry Applications, 2018, 54, 6450-6459.	3.3	33
23	Fully Evolvable Optimal Neurofuzzy Controller Using Adaptive Critic Designs. IEEE Transactions on Fuzzy Systems, 2008, 16, 1450-1461.	6.5	32
24	Application of Mobile Energy Storage for Enhancing Power Grid Resilience: A Review. Energies, 2021, 14, 6476.	1.6	31
25	Optimal Neuro-Fuzzy External Controller for a STATCOM in the 12-Bus Benchmark Power System. IEEE Transactions on Power Delivery, 2007, 22, 2548-2558.	2.9	29
26	Hardware Implementation of a Mamdani Fuzzy Logic Controller for a Static Compensator in a Multimachine Power System. IEEE Transactions on Industry Applications, 2009, 45, 1535-1544.	3.3	28
27	Applications of microgrids in distribution system service restoration. , 2011, , .		27
28	Distributed state estimation based on the supercalibrator concept - laboratory implementation. , 2007, , .		24
29	Robust Optimal Energy Pricing and Dispatch for a Multi-Microgrid Industrial Park Operating Based on Just-In-Time Strategy. IEEE Transactions on Industry Applications, 2019, 55, 3321-3330.	3.3	24
30	Intelligent demand response scheme for energy management of industrial systems. , 2012, , .		23
31	Dynamic Demand Response : A Solution for Improved Energy Efficiency for Industrial Customers. IEEE Industry Applications Magazine, 2015, 21, 54-62.	0.3	23
32	Optimal energy dispatch of the power distribution network during the course of a progressing wildfire. International Transactions on Electrical Energy Systems, 2015, 25, 3422-3438.	1.2	19
33	A laboratory setup of a power system scaled model for testing and validation of EMS applications. , 2009, , .		18
34	Modeling distribution automation system components using IEC 61850. , 2009, , .		18
35	Optimal energy management of a distribution network during the course of a heat wave. Electric Power Systems Research, 2016, 130, 230-240.	2.1	17
36	Power grid vulnerability assessment against wildfires using probabilistic progression estimation model. , 2016, , .		16

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37	Integrity Assessment Scheme for Situational Awareness in Utility Automation Systems. IEEE Transactions on Smart Grid, 2014, 5, 592-601.	6.2	15
38	Autonomous Self-Commissioning Method for Speed-Sensorless-Controlled Induction Machines. IEEE Transactions on Industry Applications, 2010, 46, 946-954.	3.3	14
39	Transient performance analysis of a small-scale PV-PHS power plant fed by a SVPWM drive applied for a distribution system. , 2013, , .		14
40	Voltage, var and watt optimization for a distribution system with high PV penetration: A probabilistic study. Electric Power Systems Research, 2020, 180, 106159.	2.1	14
41	Emergency electric service restoration in the aftermath of a natural disaster. , 2015, , .		13
42	A Laboratory Setup for a Substation Scaled Model. , 2007, , .		12
43	Electric service restoration using microgrids. , 2014, , .		12
44	Inductive power transfer for electric vehicles: Potential benefits for the distribution grid. , 2012, , .		11
45	Dynamic demand response solution for industrial customers. , 2013, , .		9
46	An Adaptive Mamdani Fuzzy Logic based Controller for a Static Compensator in a Multimachine Power System. , 0, , .		8
47	A fuzzy cognitive map for data integrity assessment in a IEC 61850 based substation. , 2010, , .		8
48	Optimal energy management in an industrial plant using on-site generation and demand scheduling. , 2015, , .		8
49	Analyzing impact of communication network topologies on reconfiguration of networked microgrids, impact of communication system on smart grid reliability, security and operation. , 2016, , .		8
50	End-User-Aware Community Energy Management in a Distribution System Exposed to Extreme Temperatures. IEEE Transactions on Smart Grid, 2019, 10, 3753-3764.	6.2	8
51	A risk-aware generation dispatch including wind power for a power grid subjected to hurricanes. International Transactions on Electrical Energy Systems, 2015, 25, 2982-3003.	1.2	7
52	Comparison of Neural Network Types and Learning Methods for Self Commissioning of Speed Sensorless Controlled Induction Machines. , 2007, , .		6
53	Reinforcement of energy delivery network against natural disaster events. International Journal of Disaster Risk Reduction, 2014, 10, 315-326.	1.8	6
54	Power Grid and Natural Disasters: A Framework for Vulnerability Assessment. , 2015, , .		6

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55	Efficient data acquisition in advanced metering infrastructure. , 2015, , .		6
56	Communication services and data model for demand response. , 2012, , .		5
57	Vehicle-to-grid scheme based on inductive power transfer for advanced distribution automation. , 2013, , .		5
58	Hybrid Stochastic Short-Term Models for Wind and Solar Energy Trajectories. , 2015, , .		5
59	Mitigation of snowstorm risks on power transmission systems based on optimal generation re-dispatch. , 2016, , .		5
60	Voltage and Power Optimization in a Distribution Network with High PV Penetration. , 2018, , .		5
61	A laboratory setup for relay and GPS-synchronized equipment transient testing. , 2008, , .		4
62	Advances in information technology for Smart Grids. , 2013, , .		4
63	Analysis and design of line matching networks for inductive power transfer system of electric vehicles. , 2016, , .		4
64	Flexible data acquisition, compression, and reconstruction in advanced metering infrastructure. , 2016, , .		4
65	Optimal Operation of Combined Energy and Water Systems for Community Resilience against Natural Disasters. Energies, 2021, 14, 6132.	1.6	4
66	Hardware implementation of a Mamdani fuzzy logic controller for a static compensator in a multimachine power system. , 0, , .		3
67	Intelligent Local and Hierarchical Control of FACTS Devices. , 2007, , .		3
68	Fuzzy Cognitive Maps for Identifying Fault Activation Patterns in Automation Systems. , 0, , .		3
69	Stability guarantees for primary frequency control with randomized flexible loads. , 2016, , .		3
70	Performance analysis of an inductive wireless power transfer system applied for electric vehicles considering operating limits. , 2017, , .		3
71	A low-power thermoelectric generator for off-grid power in the aftermath of natural disasters. , 2017, , .		3
72	Supervisory level neural network identifier for a small power system with a STATCOM and a generator. , 0, , .		2

#	ARTICLE	IF	CITATIONS
73	A Dynamic Recurrent Neural Network for Wide Area Identification of a Multimachine Power System with a FACTS Device. , 0, , .		2
74	A Static Neural Network for Input-Output Mapping of Power Electronic Circuits. , 2007, , .		2
75	Optimal wide area controller and state predictor for a power system. , 2008, , .		2
76	Maintenance-centric energy management of industrial plants assisted by demand response. , 2014, , .		2
77	An automation scheme for emergency operation of an industrial park. , 2017, , .		2
78	Sustainable Industrial Plants: Energy-Efficient, Asset-Aware, and Waste-Averse. IEEE Transactions on Industry Applications, 2018, 54, 1966-1974.	3.3	2
79	Hierarchical Control Scheme for two Static Compensators in the Brazilian 45-Bus Power System. , 2006, , .		1
80	Making the power grid more intelligent. , 2007, , .		1
81	A communication framework for an ad-hoc microgrid for disaster response. , 2015, , .		1
82	Sustainable industrial plants: Energy efficient, asset-aware and waste-averse. , 2017, , .		1
83	Optimal Energy Pricing and Dispatch for a Multi-Microgrid Industrial Park Operating Based on Just-In-Time Strategy. , 2018, , .		1
84	Adaptive Critic Designs Based Coupled Neurocontrollers for a Static Compensator. , 2006, , .		1
85	Reactive compensation techniques for increasing loadability of long primary distribution lines. , 0, , .		0
86	Adaptive critic designs based coupled neurocontrollers for a static compensator. , 2006, , .		0
87	Adaptive Critic Design Based Neuro-Fuzzy Controller for a Static Compensator in a Multimachine Power System. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	0
88	Evolutionary Approaches to the Linear Machine Layout Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1245-1250.	0.4	0
89	Adaptive auto-reclosing based on DER connectivity data with IEC 61850. , 2014, , .		0
90	Integrity assessment scheme for situational awareness in utility automation systems. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
91	Voltage, Var and Watt Control in a Distribution System with High PV Penetration Using NSGA-III. , 2018, , .		0
92	Coordinated Voltage and Power Control in a Distribution System with PV Penetration. , 2021, , .		0
93	Evolutionary Approaches to the Linear Machine Layout Problem. , 2009, , .		0
94	Socially-and-Environmentally-Aware Power Management in a Residential Neighborhood under Heat Wave Events. , 2020, , .		0
95	Energy and Water Co-Optimization for the Resilient Neighborhood of Future. , 2020, , .		0