

Hasan Mehrjerdi

List of Publications by Citations

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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.

97
papers

1,586
citations

24
h-index

35
g-index

108
ext. papers

2,215
ext. citations

5.8
avg. IF

6.68
L-index

#	Paper	IF	Citations
97	Formation path following control of unicycle-type mobile robots. <i>Robotics and Autonomous Systems</i> , 2010 , 58, 727-736	3.5	97
96	Off-grid solar powered charging station for electric and hydrogen vehicles including fuel cell and hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11574-11583	6.7	72
95	Vehicle-to-grid technology for cost reduction and uncertainty management integrated with solar power. <i>Journal of Cleaner Production</i> , 2019 , 229, 463-469	10.3	63
94	Coordination of vehicle-to-home and renewable capacity resources for energy management in resilience and self-healing building. <i>Renewable Energy</i> , 2020 , 146, 568-579	8.1	61
93	. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 2221-2232	10.7	58
92	Unified energy management and load control in building equipped with wind-solar-battery incorporating electric and hydrogen vehicles under both connected to the grid and islanding modes. <i>Energy</i> , 2019 , 168, 919-930	7.9	57
91	Nonlinear coordination control for a group of mobile robots using a virtual structure. <i>Mechatronics</i> , 2011 , 21, 1147-1155	3	54
90	Daily-seasonal operation in net-zero energy building powered by hybrid renewable energies and hydrogen storage systems. <i>Energy Conversion and Management</i> , 2019 , 201, 112156	10.6	50
89	Simultaneous load leveling and voltage profile improvement in distribution networks by optimal battery storage planning. <i>Energy</i> , 2019 , 181, 916-926	7.9	48
88	Control technique for enhancing the stable operation of distributed generation units within a microgrid. <i>Energy Conversion and Management</i> , 2015 , 97, 362-373	10.6	48
87	Modeling and optimal scheduling of battery energy storage systems in electric power distribution networks. <i>Journal of Cleaner Production</i> , 2019 , 234, 810-821	10.3	47
86	Electric vehicle charging station with multilevel charging infrastructure and hybrid solar-battery-diesel generation incorporating comfort of drivers. <i>Journal of Energy Storage</i> , 2019 , 26, 100924	7.8	42
85	Negative-Sequence Network Based Fault Location Scheme for Double-Circuit Multi-Terminal Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , 2019 , 34, 1109-1117	4.3	42
84	Modeling and optimization of an island water-energy nexus powered by a hybrid solar-wind renewable system. <i>Energy</i> , 2020 , 197, 117217	7.9	39
83	Modeling, integration, and optimal selection of the turbine technology in the hybrid wind-photovoltaic renewable energy system design. <i>Energy Conversion and Management</i> , 2020 , 205, 112350	10.6	33
82	Dynamic and multi-stage capacity expansion planning in microgrid integrated with electric vehicle charging station. <i>Journal of Energy Storage</i> , 2020 , 29, 101351	7.8	31
81	Energy and uncertainty management through domestic demand response in the residential building. <i>Energy</i> , 2020 , 192, 116647	7.9	31

80	Optimal correlation of non-renewable and renewable generating systems for producing hydrogen and methane by power to gas process. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 9210-9219	6.7	29
79	Stochastic model for electric vehicle charging station integrated with wind energy. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 37, 100577	4.7	29
78	Risk-constrained scheduling of solar Stirling engine based industrial continuous heat treatment furnace. <i>Applied Thermal Engineering</i> , 2018 , 128, 940-955	5.8	28
77	Hybrid hydrogen-battery storage to smooth solar energy volatility and energy arbitrage considering uncertain electrical-thermal loads. <i>Renewable Energy</i> , 2020 , 154, 1180-1187	8.1	28
76	Distance-differential protection of transmission lines connected to wind farms. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 89, 11-18	5.1	27
75	Peer-to-peer home energy management incorporating hydrogen storage system and solar generating units. <i>Renewable Energy</i> , 2020 , 156, 183-192	8.1	25
74	Multilevel home energy management integrated with renewable energies and storage technologies considering contingency operation. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 025101	2.5	24
73	Cascade design for formation control of nonholonomic systems in chained form. <i>Journal of the Franklin Institute</i> , 2011 , 348, 973-998	4	24
72	A Comprehensive Review of the Cyber-Attacks and Cyber-Security on Load Frequency Control of Power Systems. <i>Energies</i> , 2020 , 13, 3860	3.1	22
71	Adaptive algorithm for transmission line protection in the presence of UPFC. <i>International Journal of Electrical Power and Energy Systems</i> , 2017 , 91, 10-19	5.1	21
70	Optimal operation of hybrid electrical and thermal energy storage systems under uncertain loading condition. <i>Applied Thermal Engineering</i> , 2019 , 160, 114094	5.8	21
69	Correlation of multiple time-scale and uncertainty modelling for renewable energy-load profiles in wind powered system. <i>Journal of Cleaner Production</i> , 2019 , 236, 117644	10.3	21
68	Synchrophasor-based backup distance protection of multi-terminal transmission lines. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 3304-3313	2.5	20
67	Coordinated Control Strategy Considering Effect of Neighborhood Compensation for Voltage Improvement in Transmission Systems. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4507-4515	7	18
66	Authenticated voltage control of partitioned power networks with optimal allocation of STATCOM using heuristic algorithm. <i>IET Generation, Transmission and Distribution</i> , 2013 , 7, 1037-1045	2.5	17
65	Substation expansion deferral by multi-objective battery storage scheduling ensuring minimum cost. <i>Journal of Energy Storage</i> , 2020 , 27, 101119	7.8	17
64	Resilience-oriented adaptable microgrid formation in integrated electricity-gas system with deployment of multiple energy hubs. <i>Sustainable Cities and Society</i> , 2021 , 71, 102946	10.1	17
63	Nonlinear stochastic modeling for optimal dispatch of distributed energy resources in active distribution grids including reactive power. <i>Simulation Modelling Practice and Theory</i> , 2019 , 94, 1-13	3.9	16

62	Resilience maximization through mobile battery storage and diesel DG in integrated electrical and heating networks. <i>Energy</i> , 2021 , 237, 121195	7.9	16
61	A new sensitivity approach for preventive control selection in real-time voltage stability assessment. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 122, 106212	5.1	15
60	Zero Energy Building by Multicarrier Energy Systems including Hydro, Wind, Solar, and Hydrogen. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 5474-5484	11.9	15
59	Efficiency-Resilience Nexus in Building Energy Management Under Disruptions and Events. <i>IEEE Systems Journal</i> , 2020 , 1-10	4.3	14
58	Investment deferral by optimal utilizing vehicle to grid in solar powered active distribution networks. <i>Journal of Energy Storage</i> , 2020 , 30, 101512	7.8	14
57	Resilience oriented vehicle-to-home operation based on battery swapping mechanism. <i>Energy</i> , 2021 , 218, 119528	7.9	14
56	Area voltage control analysis in transmission systems based on clustering technique. <i>IET Generation, Transmission and Distribution</i> , 2014 , 8, 2134-2143	2.5	11
55	Design and performance investigation of a novel absorption ice-making system using waste heat recovery from flue gases of air to air heat pump. <i>Applied Thermal Engineering</i> , 2018 , 130, 782-792	5.8	11
54	Hybrid wind-diesel-battery system planning considering multiple different wind turbine technologies installation. <i>Journal of Cleaner Production</i> , 2020 , 247, 119654	10.3	10
53	Resilience-uncertainty nexus in building energy management integrated with solar system and battery storage. <i>IEEE Access</i> , 2020 , 1-1	3.5	9
52	Accurate fault location algorithm for shunt-compensated double circuit transmission lines using single end data. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 116, 105515	5.1	9
51	Practical implementation of residential load management system by considering vehicle-for-power transfer: Profit analysis. <i>Sustainable Cities and Society</i> , 2020 , 60, 102144	10.1	8
50	Stochastic Linear Programming for Optimal Planning of Battery Storage Systems Under Unbalanced-uncertain Conditions. <i>Journal of Modern Power Systems and Clean Energy</i> , 2020 , 8, 971-980	4	8
49	Non-standard characteristic of overcurrent relay for minimum operating time and maximum protection level. <i>Simulation Modelling Practice and Theory</i> , 2019 , 97, 101953	3.9	8
48	Wind-hydrogen storage in distribution network expansion planning considering investment deferral and uncertainty. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 39, 100687	4.7	8
47	Adaptive Single-Phase Auto-Reclosing Approach for Shunt Compensated Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 1360-1369	4.3	8
46	Advances in Transmission Network Fault Location in Modern Power Systems: Review, Outlook and Future Works. <i>IEEE Access</i> , 2021 , 9, 158599-158615	3.5	7
45	A pilot protection algorithm for TCSC compensated transmission line with accurate fault location capability. <i>International Journal of Electrical Power and Energy Systems</i> , 2020 , 122, 106191	5.1	6

44	Development of New Identification Method for Global Group of Controls for Online Coordinated Voltage Control in Active Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 3921-3931	10.7	6
43	Optimal cooperation of a hydrogen storage system and fuel cell to supply electrical and thermal loads. <i>Journal of Renewable and Sustainable Energy</i> , 2019 , 11, 034103	2.5	6
42	Sustainable and reliable hybrid AC/DC microgrid planning considering technology choice of equipment. <i>Sustainable Energy, Grids and Networks</i> , 2020 , 23, 100386	3.6	6
41	A Novel DC Transmission System Fault Location Technique for Offshore Renewable Energy Harvesting. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 2885-2895	4.3	6
40	Multi carrier energy systems and energy hubs: Comprehensive review, survey and recommendations. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 23795-23795	6.7	6
39	Resilience-robustness improvement by adaptable operating pattern for electric vehicles in complementary solar-vehicle management. <i>Journal of Energy Storage</i> , 2021 , 37, 102454	7.8	6
38	Modeling and integration of water desalination units in thermal unit commitment considering energy and water storage. <i>Desalination</i> , 2020 , 483, 114411	10.3	6
37	An Accurate Non-Pilot Scheme for Accelerated Trip of Distance Relay Zone-2 Faults. <i>IEEE Transactions on Power Delivery</i> , 2021 , 36, 1370-1379	4.3	6
36	. <i>IEEE Transactions on Smart Grid</i> , 2018 , 9, 220-229	10.7	5
35	Distribution power factor monitoring in presence of high RES integration using a modified load encroachment technique. <i>IET Renewable Power Generation</i> , 2018 , 12, 851-858	2.9	5
34	Accurate fault location element for series compensated double-circuit transmission lines utilizing negative-sequence phasors. <i>Electric Power Systems Research</i> , 2021 , 194, 107064	3.5	5
33	. <i>IEEE Transactions on Sustainable Energy</i> , 2021 , 12, 705-714	8.2	5
32	Improving participation of doubly fed induction generator in frequency regulation in an isolated power system. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 100, 550-558	5.1	4
31	A secondary voltage regulation approach for Hydro-Quebec in transmission level. <i>Electric Power Systems Research</i> , 2015 , 121, 183-191	3.5	4
30	Power-to-gas utilization in optimal sizing of hybrid power, water, and hydrogen microgrids with energy and gas storage. <i>Journal of Energy Storage</i> , 2022 , 45, 103745	7.8	4
29	Mutual Vehicle-to-Home and Vehicle-to-Grid Operation Considering Solar-Load Uncertainty 2019 ,		4
28	Resilience Improvement With Zero Load Curtailment by Multi-Microgrid Based on System of Systems. <i>IEEE Access</i> , 2020 , 8, 198494-198502	3.5	3
27	Modeling and Optimal Planning of an Energy-Water-Carbon Nexus System for Sustainable Development of Local Communities. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2100024	5.9	3

26	Vision-based curved lane keeping control for intelligent vehicle highway system. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2019 , 233, 961-979 ¹	3
25	Resilience-oriented operation of power systems: Hierarchical partitioning-based approach. <i>Applied Energy</i> , 2022 , 312, 118721	10.7 3
24	On sizing the required energy of HVDC based inertia emulation for frequency control 2017 ,	2
23	Comparative study of SBOAs on the tuning procedure of the designed SMPI controller for MIMO VSP/HVDC interconnected model. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 129, 106812	5.1 2
22	An optimized LQG servo controller design using LQI tracker for VSP-based AC/DC interconnected systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 129, 106752	5.1 2
21	Performance Enhancement of PPMIM Drives by using 3 Three-Phase Four-Leg Inverters 2019 ,	2
20	Carbon-Constrained and Cost Optimal Hybrid Wind-Based System for Sustainable Water Desalination. <i>IEEE Access</i> , 2021 , 9, 84079-84092	3.5 2
19	Derivative based inertia emulation of interconnected systems considering phase-locked loop dynamics 2016 ,	1
18	Multi-Carrier Microgrid Operation Model using Stochastic Mixed Integer Linear Programming. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 1-1	11.9 1
17	Accelerated distance protection for transmission lines based on accurate fault location. <i>Electric Power Systems Research</i> , 2021 , 193, 107021	3.5 1
16	Performance Enhancement of PPMIM Drives by Using Three 3-Phase Four-Leg Inverters. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 2516-2526	4.3 1
15	Optimal Linear Quadratic Regulator Design of Interconnected Systems with VSP based HVDC Links for Inertia Emulation 2019 ,	1
14	Design of Multivariable PI Controller Using Evolutionary Algorithms for VSP based AC/DC Interconnected Systems 2019 ,	1
13	Optimal Scheduling of Demand Response Aggregators in Industrial Parks Based on Load Disaggregation Algorithm. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3 1
12	Effects of penetration level and location of wind turbines on shadow prices and congestion of transmission lines. <i>Journal of Renewable and Sustainable Energy</i> , 2018 , 10, 065503	2.5 1
11	Coordination of thermal/wind energies in power-to-gas process for cost/pollution abatement considering wind energy recovery. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022 , 44, 632-649	1.6 1
10	A centralized stochastic optimal dispatching strategy of networked multi-carrier microgrids considering transactive energy and integrated demand response: Application to water-energy nexus. <i>Sustainable Energy, Grids and Networks</i> , 2022 , 100751	3.6 1
9	A Multilayer Perception Trained Method in Speed Control of a Linear Switched Reluctance Motor. <i>IEEE Transactions on Power Electronics</i> , 2022 , 37, 4475-4483	7.2 0

8	New elevator system constructed by multi-translator linear switched reluctance motor with enhanced motion quality. <i>IET Electric Power Applications</i> , 2020 , 14, 1692-1701	1.8	o
7	High-speed auxiliary fault location element for distance relays in double-circuit lines. <i>Electric Power Systems Research</i> , 2021 , 200, 107470	3.5	o
6	A Quasi-Oppositional Method for Output Tracking Control by Swarm-Based MPID Controller on AC/HVDC Interconnected Systems With Virtual Inertia Emulation. <i>IEEE Access</i> , 2021 , 1-1	3.5	o
5	Optimal allocation of power-to-hydrogen units in regional power grids for green hydrogen trading: Opportunities and barriers. <i>Journal of Cleaner Production</i> , 2022 , 358, 131937	10.3	o
4	Dynamic interactions in large scale photovoltaic power plants with frequency and voltage support. <i>Electric Power Systems Research</i> , 2022 , 207, 107848	3.5	
3	. <i>IEEE Access</i> , 2021 , 9, 156437-156450	3.5	
2	Microgrid Formation Strategy Including Multiple Energy and Capacity Resources for Resilience Improvement. <i>Power Systems</i> , 2021 , 151-175	0.4	
1	Robust multivariable control design for HVDC systems considering AC grid impedance uncertainties. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 141, 108152	5.1	