

Hasan Mehrjerdi

List of Publications by Year in descending order

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108
papers

2,827
citations

147726

31
h-index

197736

49
g-index

108
all docs

108
docs citations

108
times ranked

2122
citing authors

#	ARTICLE	IF	CITATIONS
1	Off-grid solar powered charging station for electric and hydrogen vehicles including fuel cell and hydrogen storage. International Journal of Hydrogen Energy, 2019, 44, 11574-11583.	3.8	135
2	Formation path following control of unicycle-type mobile robots. Robotics and Autonomous Systems, 2010, 58, 727-736.	3.0	129
3	Coordination of vehicle-to-home and renewable capacity resources for energy management in resilience and self-healing building. Renewable Energy, 2020, 146, 568-579.	4.3	105
4	Vehicle-to-grid technology for cost reduction and uncertainty management integrated with solar power. Journal of Cleaner Production, 2019, 229, 463-469.	4.6	91
5	A Monitoring Technique for Reversed Power Flow Detection With High PV Penetration Level. IEEE Transactions on Smart Grid, 2015, 6, 2221-2232.	6.2	90
6	Daily-seasonal operation in net-zero energy building powered by hybrid renewable energies and hydrogen storage systems. Energy Conversion and Management, 2019, 201, 112156.	4.4	83
7	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. Energy, 2019, 168, 919-930.	4.5	81
8	Electric vehicle charging station with multilevel charging infrastructure and hybrid solar-battery-diesel generation incorporating comfort of drivers. Journal of Energy Storage, 2019, 26, 100924.	3.9	76
9	Simultaneous load leveling and voltage profile improvement in distribution networks by optimal battery storage planning. Energy, 2019, 181, 916-926.	4.5	74
10	Modeling and optimal scheduling of battery energy storage systems in electric power distribution networks. Journal of Cleaner Production, 2019, 234, 810-821.	4.6	74
11	Hybrid hydrogen-battery storage to smooth solar energy volatility and energy arbitrage considering uncertain electrical-thermal loads. Renewable Energy, 2020, 154, 1180-1187.	4.3	72
12	Modeling and optimization of an island water-energy nexus powered by a hybrid solar-wind renewable system. Energy, 2020, 197, 117217.	4.5	70
13	Nonlinear coordination control for a group of mobile robots using a virtual structure. Mechatronics, 2011, 21, 1147-1155.	2.0	64
14	Control technique for enhancing the stable operation of distributed generation units within a microgrid. Energy Conversion and Management, 2015, 97, 362-373.	4.4	60
15	A Comprehensive Review of the Cyber-Attacks and Cyber-Security on Load Frequency Control of Power Systems. Energies, 2020, 13, 3860.	1.6	60
16	Peer-to-peer home energy management incorporating hydrogen storage system and solar generating units. Renewable Energy, 2020, 156, 183-192.	4.3	60
17	Dynamic and multi-stage capacity expansion planning in microgrid integrated with electric vehicle charging station. Journal of Energy Storage, 2020, 29, 101351.	3.9	57
18	Negative-Sequence Network Based Fault Location Scheme for Double-Circuit Multi-Terminal Transmission Lines. IEEE Transactions on Power Delivery, 2019, 34, 1109-1117.	2.9	56

#	ARTICLE	IF	CITATIONS
19	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.	4.4	54
20	Stochastic model for electric vehicle charging station integrated with wind energy. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 37, 100577.	1.7	50
21	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.	5.1	49
22	Distance-differential protection of transmission lines connected to wind farms. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 89, 11-18.	3.3	44
23	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.	3.8	42
24	Energy and uncertainty management through domestic demand response in the residential building. <i>Energy</i> , 2020, 192, 116647.	4.5	42
25	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.	3.9	41
26	Zero Energy Building by Multicarrier Energy Systems including Hydro, Wind, Solar, and Hydrogen. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 5474-5484.	7.2	40
27	Multi carrier energy systems and energy hubs: Comprehensive review, survey and recommendations. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 23795-23814.	3.8	40
28	Resilience maximization through mobile battery storage and diesel DG in integrated electrical and heating networks. <i>Energy</i> , 2021, 237, 121195.	4.5	39
29	Optimal operation of hybrid electrical and thermal energy storage systems under uncertain loading condition. <i>Applied Thermal Engineering</i> , 2019, 160, 114094.	3.0	36
30	Multilevel home energy management integrated with renewable energies and storage technologies considering contingency operation. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	0.8	35
31	Substation expansion deferral by multi-objective battery storage scheduling ensuring minimum cost. <i>Journal of Energy Storage</i> , 2020, 27, 101119.	3.9	34
32	Synchrophasor-based backup distance protection of multi-terminal transmission lines. <i>IET Generation, Transmission and Distribution</i> , 2016, 10, 3304-3313.	1.4	31
33	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.	3.3	31
34	Risk-constrained scheduling of solar Stirling engine based industrial continuous heat treatment furnace. <i>Applied Thermal Engineering</i> , 2018, 128, 940-955.	3.0	31
35	Resilience oriented vehicle-to-home operation based on battery swapping mechanism. <i>Energy</i> , 2021, 218, 119528.	4.5	31
36	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.	4.6	30

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37	Investment deferral by optimal utilizing vehicle to grid in solar powered active distribution networks. <i>Journal of Energy Storage</i> , 2020, 30, 101512.	3.9	30
38	Cascade design for formation control of nonholonomic systems in chained form. <i>Journal of the Franklin Institute</i> , 2011, 348, 973-998.	1.9	27
39	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.	4.6	25
40	Sustainable and reliable hybrid AC/DC microgrid planning considering technology choice of equipment. <i>Sustainable Energy, Grids and Networks</i> , 2020, 23, 100386.	2.3	25
41	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.	2.2	24
42	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.	3.3	24
43	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.	1.4	21
44	Advances in Transmission Network Fault Location in Modern Power Systems: Review, Outlook and Future Works. <i>IEEE Access</i> , 2021, 9, 158599-158615.	2.6	21
45	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.	6.2	20
46	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.	3.3	19
47	Optimal Scheduling of Demand Response Aggregators in Industrial Parks Based on Load Disaggregation Algorithm. <i>IEEE Systems Journal</i> , 2022, 16, 945-953.	2.9	19
48	Non-standard characteristic of overcurrent relay for minimum operating time and maximum protection level. <i>Simulation Modelling Practice and Theory</i> , 2019, 97, 101953.	2.2	17
49	Hybrid wind-diesel-battery system planning considering multiple different wind turbine technologies installation. <i>Journal of Cleaner Production</i> , 2020, 247, 119654.	4.6	16
50	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.	2.9	16
51	Resilience-robustness improvement by adaptable operating pattern for electric vehicles in complementary solar-vehicle management. <i>Journal of Energy Storage</i> , 2021, 37, 102454.	3.9	16
52	Efficiency-Resilience Nexus in Building Energy Management Under Disruptions and Events. <i>IEEE Systems Journal</i> , 2022, 16, 299-308.	2.9	15
53	Adaptive Single-Phase Auto-Reclosing Approach for Shunt Compensated Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , 2021, 36, 1360-1369.	2.9	15
54	Wind-hydrogen storage in distribution network expansion planning considering investment deferral and uncertainty. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 39, 100687.	1.7	14

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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.	3.0	13
56	Managing Multitype Capacity Resources for Frequency Regulation in Unit Commitment Integrated With Large Wind Ramping. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 705-714.	5.9	13
57	Multicarrier Microgrid Operation Model Using Stochastic Mixed Integer Linear Programming. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 4674-4687.	7.2	13
58	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, 31, 100751.	2.3	13
59	Area voltage control analysis in transmission systems based on clustering technique. <i>IET Generation, Transmission and Distribution</i> , 2014, 8, 2134-2143.	1.4	12
60	Practical implementation of residential load management system by considering vehicle-for-power transfer: Profit analysis. <i>Sustainable Cities and Society</i> , 2020, 60, 102144.	5.1	12
61	Resilience-uncertainty nexus in building energy management integrated with solar system and battery storage. <i>IEEE Access</i> , 2024, , 1-1.	2.6	12
62	Modeling and integration of water desalination units in thermal unit commitment considering energy and water storage. <i>Desalination</i> , 2020, 483, 114411.	4.0	12
63	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.	2.7	12
64	An Impedance-Based Method for Distribution System Monitoring. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 220-229.	6.2	11
65	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.	3.3	11
66	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.	3.3	11
67	A Novel DC Transmission System Fault Location Technique for Offshore Renewable Energy Harvesting. <i>IEEE Transactions on Power Delivery</i> , 2020, 35, 2885-2895.	2.9	10
68	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.	3.3	10
69	Resilience Improvement With Zero Load Curtailment by Multi-Microgrid Based on System of Systems. <i>IEEE Access</i> , 2020, 8, 198494-198502.	2.6	9
70	Accelerated distance protection for transmission lines based on accurate fault location. <i>Electric Power Systems Research</i> , 2021, 193, 107021.	2.1	9
71	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.	4.6	9
72	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.	1.7	8

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73	Mutual Vehicle-to-Home and Vehicle-to-Grid Operation Considering Solar-Load Uncertainty. , 2019, , .		8
74	Accurate fault location element for series compensated double-circuit transmission lines utilizing negative-sequence phasors. Electric Power Systems Research, 2021, 194, 107064.	2.1	8
75	Resilience-oriented operation of power systems: Hierarchical partitioning-based approach. Applied Energy, 2022, 312, 118721.	5.1	8
76	Techno-economic-environmental modeling, joint optimization, and sensitivity analysis of a combined water desalination-hybrid renewable supply system. International Journal of Energy Research, 2022, 46, 12323-12340.	2.2	8
77	Optimal cooperation of a hydrogen storage system and fuel cell to supply electrical and thermal loads. Journal of Renewable and Sustainable Energy, 2019, 11, 034103.	0.8	7
78	Tri-objective optimization of a synergistic wind-photovoltaic plant for water desalination addressing sustainable development goals. Sustainable Development, 2022, 30, 1811-1822.	6.9	7
79	Mobile Battery Storage Modeling and Normal-Emergency Operation in Coupled Distribution-Transportation Networks. IEEE Transactions on Sustainable Energy, 2022, 13, 2226-2238.	5.9	7
80	Carbon-Constrained and Cost Optimal Hybrid Wind-Based System for Sustainable Water Desalination. IEEE Access, 2021, 9, 84079-84092.	2.6	6
81	On sizing the required energy of HVDC based inertia emulation for frequency control. , 2017, , .		5
82	Vision-based curved lane keeping control for intelligent vehicle highway system. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 961-979.	0.7	5
83	Performance Enhancement of PPMIM Drives by Using Three 3-Phase Four-Leg Inverters. IEEE Transactions on Industry Applications, 2021, 57, 2516-2526.	3.3	5
84	Dynamic interactions in large scale photovoltaic power plants with frequency and voltage support. Electric Power Systems Research, 2022, 207, 107848.	2.1	5
85	Coordination of thermal/wind energies in power-to-gas process for cost/pollution abatement considering wind energy recovery. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 632-649.	1.2	5
86	A secondary voltage regulation approach for Hydro-Québec in transmission level. Electric Power Systems Research, 2015, 121, 183-191.	2.1	4
87	Improving participation of doubly fed induction generator in frequency regulation in an isolated power system. International Journal of Electrical Power and Energy Systems, 2018, 100, 550-558.	3.3	4
88	Optimal operation and management of multi-microgrids using blockchain technology. IET Renewable Power Generation, 2022, 16, 3449-3462.	1.7	4
89	High-speed auxiliary fault location element for distance relays in double-circuit lines. Electric Power Systems Research, 2021, 200, 107470.	2.1	4
90	Derivative based inertia emulation of interconnected systems considering phase-locked loop dynamics. , 2016, , .		3

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91	Optimal Linear Quadratic Regulator Design of Interconnected Systems with VSP based HVDC Links for Inertia Emulation. , 2019, , .		3
92	New elevator system constructed by multi-translator linear switched reluctance motor with enhanced motion quality. IET Electric Power Applications, 2020, 14, 1692-1701.	1.1	3
93	Sensitivity Analysis for Voltage Stability Considering Voltage Dependent Characteristics of Loads and DGs. IEEE Access, 2021, 9, 156437-156450.	2.6	3
94	A Multilayer Perception Trained Method in Speed Control of a Linear Switched Reluctance Motor. IEEE Transactions on Power Electronics, 2022, 37, 4475-4483.	5.4	3
95	Performance Enhancement of PPMIM Drives by using 3 Three-Phase Four-Leg Inverters. , 2019, , .		2
96	Comparative study of SBOAs on the tuning procedure of the designed SMPI controller for MIMO VSP/HVDC interconnected model. International Journal of Electrical Power and Energy Systems, 2021, 129, 106812.	3.3	2
97	A Quasi-Oppositional Method for Output Tracking Control by Swarm-Based MPID Controller on AC/HVDC Interconnected Systems With Virtual Inertia Emulation. IEEE Access, 2021, 9, 77572-77598.	2.6	2
98	Modeling and analysis approaches for small-signal stability assessment of power-electronic-dominated systems. Wiley Interdisciplinary Reviews: Energy and Environment, 2023, 12, .	1.9	2
99	Effects of penetration level and location of wind turbines on shadow prices and congestion of transmission lines. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	1
100	Design of Multivariable PI Controller Using Evolutionary Algorithms for VSP based AC/DC Interconnected Systems. , 2019, , .		1
101	Top-Down/Bottom-Up Method for Identifying a Set of Voltage Stability Preventive Controls. , 2020, , .		1
102	Frequency and voltage partitioning in presence of renewable energy resources for power system (example: North Chile power network). , 2016, , .		0
103	A Modified Load Encroachment Technique for Power Factor Monitoring. , 2018, , .		0
104	Experimental study on overcurrent relay setting for maximum protection level. , 2019, , .		0
105	Protection of Transmission Line in Presence of Parallel Capacitance Elements. , 2019, , .		0
106	Modeling of Digital Distance Relay in EMTWorks Considering Protective Zones and Trip Characteristics. , 2019, , .		0
107	Microgrid Formation Strategy Including Multiple Energy and Capacity Resources for Resilience Improvement. Power Systems, 2021, , 151-175.	0.3	0
108	Robust multivariable control design for HVDC systems considering AC grid impedance uncertainties. International Journal of Electrical Power and Energy Systems, 2022, 141, 108152.	3.3	0