

Navid Rezaei

List of Publications by Year in descending order

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47
papers

1,121
citations

471371

17
h-index

395590

33
g-index

48
all docs

48
docs citations

48
times ranked

916
citing authors

#	ARTICLE	IF	CITATIONS
1	A new isolated renewable based multi microgrid optimal energy management system considering uncertainty and demand response. International Journal of Electrical Power and Energy Systems, 2020, 118, 105760.	3.3	119
2	Smart microgrid hierarchical frequency control ancillary service provision based on virtual inertia concept: An integrated demand response and droop controlled distributed generation framework. Energy Conversion and Management, 2015, 92, 287-301.	4.4	110
3	Stochastic frequency-security constrained energy and reserve management of an inverter interfaced islanded microgrid considering demand response programs. International Journal of Electrical Power and Energy Systems, 2015, 69, 273-286.	3.3	81
4	Energy and Frequency Hierarchical Management System Using Information Gap Decision Theory for Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2018, 65, 7921-7932.	5.2	78
5	Economic energy and reserve management of renewable-based microgrids in the presence of electric vehicle aggregators: A robust optimization approach. Energy, 2020, 201, 117629.	4.5	70
6	Power quality improvement in smart grids using electric vehicles: a review. IET Electrical Systems in Transportation, 2019, 9, 53-64.	1.5	61
7	Simultaneous power and heat scheduling of microgrids considering operational uncertainties: A new stochastic p-robust optimization approach. Energy, 2019, 185, 239-253.	4.5	54
8	A hierarchical energy management system for islanded multi-microgrid clusters considering frequency security constraints. International Journal of Electrical Power and Energy Systems, 2020, 121, 106134.	3.3	53
9	Multiobjective Risk-Constrained Optimal Bidding Strategy of Smart Microgrids: An IGDT-Based Normal Boundary Intersection Approach. IEEE Transactions on Industrial Informatics, 2019, 15, 1532-1543.	7.2	49
10	Economic-environmental hierarchical frequency management of a droop-controlled islanded microgrid. Energy Conversion and Management, 2014, 88, 498-515.	4.4	45
11	Economic-environmental risk-averse optimal heat and power energy management of a grid-connected multi microgrid system considering demand response and bidding strategy. Energy, 2022, 240, 122844.	4.5	37
12	Energy management system of networked microgrids through optimal reliability-oriented day-ahead self-healing scheduling. Sustainable Energy, Grids and Networks, 2020, 23, 100387.	2.3	30
13	Information Gap Decision Theory Based Preventive/Corrective Voltage Control for Smart Power Systems With High Wind Penetration. IEEE Transactions on Industrial Informatics, 2018, 14, 4385-4394.	7.2	29
14	Optimal islanding operation of hydrogen integrated multi-microgrids considering uncertainty and unexpected outages. Journal of Energy Storage, 2022, 49, 104142.	3.9	20
15	Hierarchical energy and frequency security pricing in a smart microgrid: An equilibrium-inspired epsilon constraint based multi-objective decision making approach. Energy Conversion and Management, 2015, 98, 533-543.	4.4	18
16	Stochastic optimal robust design of a new multi-stage under-frequency load shedding system considering renewable energy sources. International Journal of Electrical Power and Energy Systems, 2020, 118, 105735.	3.3	18
17	An IGDT-based robust optimization model for optimal operational planning of cooperative microgrid clusters: A normal boundary intersection multi-objective approach. International Journal of Electrical Power and Energy Systems, 2021, 127, 106634.	3.3	18
18	Using PV systems and parking lots to provide virtual inertia and frequency regulation provision in low inertia grids. Electric Power Systems Research, 2022, 207, 107859.	2.1	18

#	ARTICLE	IF	CITATIONS
19	A comprehensive review of renewable energy resources for electricity generation in Australia. <i>Frontiers in Energy</i> , 2020, 14, 510-529.	1.2	16
20	A Novel Passive Islanding Detection Scheme for Synchronous-type DG using Load Angle and Mechanical Power Parameters. <i>Electric Power Systems Research</i> , 2021, 192, 106968.	2.1	15
21	Towards an enhanced power system sustainability: An MILP under-frequency load shedding scheme considering demand response resources. <i>Sustainable Cities and Society</i> , 2020, 59, 102168.	5.1	14
22	A new stochastic gain adaptive energy management system for smart microgrids considering frequency responsive loads. <i>Energy Reports</i> , 2020, 6, 914-932.	2.5	14
23	Optimum storage sizing in a hybrid wind-battery energy system considering power fluctuation characteristics. <i>Journal of Energy Storage</i> , 2022, 52, 104634.	3.9	14
24	Optimal IPFC signal selection and damping controller design using a novel current injection model in a multi-machine power system. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 44, 461-470.	3.3	13
25	Robust optimal energy and reactive power management in smart distribution networks: An info-gap multi-objective approach. <i>International Transactions on Electrical Energy Systems</i> , 2019, 29, e12115.	1.2	13
26	A Novel Loss-of-Excitation Protection Strategy Based on Reactive Power Increment of Synchronous Generators. <i>IEEE Transactions on Power Delivery</i> , 2021, 36, 3733-3742.	2.9	13
27	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
28	Optimal design of an adaptive under-frequency load shedding scheme in smart grids considering operational uncertainties. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 121, 106137.	3.3	12
29	Fast and reliable index to protect the synchronous generators against loss of field incidence. <i>IET Generation, Transmission and Distribution</i> , 2020, 14, 6019-6026.	1.4	8
30	A novel hierarchical energy management of a renewable microgrid considering static and dynamic frequency. <i>Journal of Renewable and Sustainable Energy</i> , 2015, 7, .	0.8	7
31	A reliable and straightforward index to avoid nuisance trip of the conventional Z-based loss-of-field relay in synchronous generators. <i>IET Generation, Transmission and Distribution</i> , 2022, 16, 1201-1211.	1.4	7
32	Improvement of the impedance-based loss-of-field protection scheme based on the dynamic behavior of the synchronous generators. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 141, 108221.	3.3	7
33	Towards an extended power system stability: An optimized GCSC-based inter-area damping controller proposal. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 56, 316-324.	3.3	6
34	Risk-Aware Bilevel Optimal Offering Strategy of a Joint Wind/Storage Unit Based on Information Gap Decision Theory. <i>IEEE Systems Journal</i> , 2021, 15, 1939-1949.	2.9	6
35	Role of vanadium redox flow batteries in the energy management system of isolated microgrids. <i>Journal of Energy Storage</i> , 2021, 40, 102673.	3.9	6
36	Information-Gap Decision Theory: Principles and Fundamentals. , 2019, , 11-33.		4

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37	A coordinated management scheme for power quality and load consumption improvement in smart grids based on sustainable energy exchange based model. Sustainable Energy Technologies and Assessments, 2022, 51, 101903.	1.7	4
38	Reliability-Oriented Optimal Scheduling of Self-Healing in Multi-Microgrids. , 2018, , .		3
39	A multi-â€featureâ€based passive islanding detection scheme for <scp>synchronousâ€machine</scp> â€based distributed generation. International Transactions on Electrical Energy Systems, 2020, 30, e12586.	1.2	3
40	An infoâ€gap riskâ€averse optimization model for coordination of overcurrent protective relays considering power system uncertainty. International Transactions on Electrical Energy Systems, 2020, 30, e12600.	1.2	3
41	A Novel Loss-of-Excitation Protection Scheme based on Load Angle Variation of Parallel Synchronous Generators. , 2021, , .		3
42	A novel analytical method for DC offset mitigation enhancing DFT phasor estimation. Electric Power Systems Research, 2022, 209, 108036.	2.1	3
43	A novel frequency aware energy management system for a droop controlled microgrid. , 2014, , .		2
44	An Improved Setting-Free Scheme for Fast and Reliable Detection of Complete and Partial Loss-of-Excitation. IEEE Systems Journal, 2023, 17, 860-868.	2.9	2
45	A novel current injection model of GCSC for control and damping of power system oscillations. IETE Journal of Research, 2013, 59, 768.	1.8	1
46	Design of multi-objective damping controller for gate-controlled series capacitor. Sadhana - Academy Proceedings in Engineering Sciences, 2014, 39, 363-376.	0.8	0
47	Introduction and Literature Review of the Application of Machine Learning/Deep Learning to Control Problems of Power Systems. Power Systems, 2021, , 83-117.	0.3	0