Ameena Al-Sumaiti

List of Publications by Year
in descending order

71 papers	1,457 citations	331670 21 h-index	361022 35 g-index
72 all docs	72 docs citations	72 times ranked	1390 citing authors

#	Article	IF	Citations
1	Smart Home Activities: A Literature Review. Electric Power Components and Systems, 2014, 42, 294-305.	1.8	137
2	Optimal Performance of Dynamic Particle Swarm Optimization Based Maximum Power Trackers for Stand-Alone PV System Under Partial Shading Conditions. IEEE Access, 2020, 8, 20770-20785.	4.2	96
3	An Intelligent Secured Framework for Cyberattack Detection in Electric Vehicles' CAN Bus Using Machine Learning. IEEE Access, 2019, 7, 127580-127592.	4.2	95
4	A Control Strategy for Voltage Unbalance Mitigation in an Islanded Microgrid Considering Demand Side Management Capability. IEEE Transactions on Smart Grid, 2019, 10, 2558-2568.	9.0	65
5	Micro Water–Energy Nexus: Optimal Demand-Side Management and Quasi-Convex Hull Relaxation. IEEE Transactions on Control of Network Systems, 2019, 6, 1313-1322.	3.7	64
6	Tree Growth Based Optimization Algorithm for Parameter Extraction of Different Models of Photovoltaic Cells and Modules. IEEE Access, 2020, 8, 119668-119687.	4.2	56
7	Optimal Design of an Islanded Microgrid With Load Shifting Mechanism Between Electrical and Thermal Energy Storage Systems. IEEE Transactions on Power Systems, 2020, 35, 2642-2657.	6.5	53
8	Smart Energy Optimization Using Heuristic Algorithm in Smart Grid with Integration of Solar Energy Sources. Energies, 2018, 11, 3494.	3.1	49
9	Conservation Voltage Reduction for Autonomous Microgrids Based on V–I Droop Characteristics. IEEE Transactions on Sustainable Energy, 2017, 8, 1076-1085.	8.8	46
10	Day-ahead offering strategy in the market for concentrating solar power considering thermoelectric decoupling by a compressed air energy storage. Applied Energy, 2022, 305, 117804.	10.1	43
11	A Centralized Smart Decision-Making Hierarchical Interactive Architecture for Multiple Home Microgrids in Retail Electricity Market. Energies, 2018, 11, 3144.	3.1	34
12	Stochastic PV model for power system planning applications. IET Renewable Power Generation, 2019, 13, 3168-3179.	3.1	34
13	Further Optimized Scheduling of Micro Grids via Dispatching Virtual Electricity Storage Offered by Deferrable Power-Driven Demands. IEEE Transactions on Power Systems, 2020, 35, 3494-3505.	6.5	32
14	A Secured Social-Economic Framework Based on PEM-Blockchain for Optimal Scheduling of Reconfigurable Interconnected Microgrids. IEEE Access, 2021, 9, 40797-40810.	4.2	30
15	Estimation of an Optimal PV Panel Cleaning Strategy Based on Both Annual Radiation Profile and Module Degradation. IEEE Access, 2020, 8, 63832-63839.	4.2	29
16	A Reliability-Oriented Fuzzy Stochastic Framework in Automated Distribution Grids to Allocate mu-PMUs. IEEE Access, 2019, 7, 33393-33404.	4.2	28
17	Towards Energy Management Negotiation Between Distributed AC/DC Networks. IEEE Access, 2020, 8, 215438-215456.	4.2	28
18	Coalition Formation of Microgrids with Distributed Energy Resources and Energy Storage in Energy Market. Journal of Modern Power Systems and Clean Energy, 2020, 8, 906-918.	5.4	25

#	Article	IF	Citations
19	Modeling and Co-Optimization of a Micro Water-Energy Nexus for Smart Communities. , 2018, , .		24
20	Enabling electricity access in developing countries: A probabilistic weather driven house based approach. Applied Energy, 2017, 191, 531-548.	10.1	22
21	A Guided Procedure for Governance Institutions to Regulate Funding Requirements of Solar PV Projects. IEEE Access, 2019, 7, 54203-54217.	4.2	22
22	Enabling electricity access: revisiting load models for AC–grid operation –Part I. IET Generation, Transmission and Distribution, 2019, 13, 2563-2571.	2.5	22
23	Economic Assessment of Distributed Generation Technologies: A Feasibility Study and Comparison with the Literature. Energies, 2020, 13, 2764.	3.1	22
24	Heuristic search algorithms for optimal locations and sizing of distributed generators in the grid: A brief recent review. , 2018, , .		20
25	Enabling electricity access: a comprehensive energy efficient approach mitigating climate/weather variability – Part II. IET Generation, Transmission and Distribution, 2019, 13, 2572-2583.	2.5	18
26	Residential Load Management Under Stochastic Weather Condition in Developing Countries. Electric Power Components and Systems, 2014, 42, 1452-1473.	1.8	16
27	Optimal power tracking of PMSG based wind energy conversion systems by constrained direct control with fast convergence rates. International Journal of Electrical Power and Energy Systems, 2020, 118, 105807.	5.5	16
28	Load Curtailment Optimization Using the PSO Algorithm for Enhancing the Reliability of Distribution Networks. Energies, 2020, 13, 3236.	3.1	16
29	Impact of Load Profile on Dynamic Interactions Between Energy Markets: A Case Study of Power Exchange and Demand Response Exchange. IEEE Transactions on Industrial Informatics, 2019, 15, 5855-5866.	11.3	15
30	Enhanced Performance of Charging Stations via Converter Control Under Unbalanced and Harmonic Distorted Grids. IEEE Transactions on Power Delivery, 2021, 36, 3964-3976.	4.3	15
31	Cloud Energy Storage Based Embedded Battery Technology Architecture for Residential Users Cost Minimization. IEEE Access, 2022, 10, 43685-43702.	4.2	15
32	Cost-Effective Predictive Flux Control for a Sensorless Doubly Fed Induction Generator. IEEE Access, 2019, 7, 172606-172627.	4.2	14
33	Advanced Type-1c FLL for Enhancing Converters Synchronization During Frequency Drift. IEEE Transactions on Power Delivery, 2021, 36, 1063-1078.	4.3	14
34	Comprehensive Validation of Transient Stability Calculations in Electric Power Systems and Hardware-Software Tool for Its Implementation. IEEE Access, 2020, 8, 136071-136091.	4.2	13
35	Effective Model Predictive Voltage Control for a Sensorless Doubly Fed Induction Generator. Canadian Journal of Electrical and Computer Engineering, 2021, 44, 50-64.	2.0	13
36	Data Collection Surveys on the Cornerstones of the Water-Energy Nexus: A Systematic Overview. IEEE Access, 2020, 8, 93011-93027.	4.2	12

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37	Impact of Energy Storage Useful Life on Intelligent Microgrid Scheduling. Energies, 2020, 13, 957.	3.1	12
38	A Bayesian Approach to the Reliability Analysis of Renewables-Dominated Islanded DC Microgrids. IEEE Transactions on Power Systems, 2021, 36, 4296-4309.	6.5	12
39	A MDP-Based Vulnerability Analysis of Power Networks Considering Network Topology and Transmission Capacity. IEEE Access, 2020, 8, 2032-2041.	4.2	11
40	Assessment of Model Predictive Voltage Control for Autonomous Four-Leg Inverter. IEEE Access, 2020, 8, 101163-101180.	4.2	11
41	A National Strategy Proposal for Improved Cooking Stove Adoption in Honduras: Energy Consumption and Cost-Benefit Analysis. Energies, 2020, 13, 921.	3.1	11
42	The role of regulation in the economic evaluation of renewable energy investments in developing countries. , 2013, , .		10
43	Dynamic Carbon-Constrained EPEC Model for Strategic Generation Investment Incentives with the Aim of Reducing CO_2 Emissions. Energies, 2019, 12, 4813.	3.1	10
44	Mathematical Models for Optimization of Grid-Integrated Energy Storage Systems: A Review. , 2019, , .		10
45	Aggregated Demand Response Scheduling in Competitive Market Considering Load behavior through Fuzzy Intelligence. IEEE Transactions on Industry Applications, 2020, , 1-1.	4.9	10
46	Dynamic behavior of multi-carrier energy market in view of investment incentives. Electrical Engineering, 2019, 101, 1033-1051.	2.0	9
47	A Novel Sensorless Control for Multiphase Induction Motor Drives Based on Singularly Perturbed Sliding Mode Observer-Experimental Validation. Applied Sciences (Switzerland), 2020, 10, 2776.	2.5	9
48	The Impact of Demand Response Programs on Reducing the Emissions and Cost of A Neighborhood Home Microgrid. Applied Sciences (Switzerland), 2019, 9, 2097.	2.5	8
49	A Predictive KH-Based Model to Enhance the Performance of Industrial Electric Arc Furnaces. IEEE Transactions on Industrial Electronics, 2019, 66, 7976-7985.	7.9	8
50	A profit-based self-scheduling framework for generation company energy and ancillary service participation in multi-constrained environment with renewable energy penetration. Energy and Environment, 2020, 31, 549-569.	4.6	8
51	Optimal investment and operation of a microgrid to provide electricity and heat. IET Renewable Power Generation, 2021, 15, 2586-2595.	3.1	8
52	A Framework for Determining a Prediction-Of-Use Tariff Aimed at Coordinating Aggregators of Plug-In Electric Vehicles. Energies, 2019, 12, 4487.	3.1	7
53	A Distortion-Based Potential Game for Secondary Voltage Control in Micro-Grids. IEEE Access, 2020, 8, 110611-110622.	4.2	6
54	Optimized Design of Rotor Barriers in PM-Assisted Synchronous Reluctance Machines With Taguchi Method. IEEE Access, 2022, 10, 38165-38173.	4.2	6

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55	Electricity-water usage for sustainable development: An analysis of United Arab Emirates farms. Energy Policy, 2020, 147, 111823.	8.8	5
56	Combined Stockwell and Hilbert Transforms Based Technique for the Detection of Islanding Events in Hybrid Power System. , 2020, , .		4
57	Low-Capacity Exploitation of Distribution Networks and Its Effect on the Planning of Distribution Networks. Energies, 2020, 13, 1920.	3.1	4
58	Multifunctional Control of Wind-Turbine Based Nano-Grid Connected to Distorted Utility-Grid. IEEE Transactions on Power Systems, 2022, 37, 576-589.	6.5	4
59	Building Energy Management System: An Overview of Recent Literature Research. , 2019, , .		3
60	A Novel Hybrid Optimization Algorithm for Maximum Power Point Tracking of Partially Shaded Photovoltaic Systems. Green Energy and Technology, 2021, , 201-230.	0.6	3
61	An Investigation on the Impacts of Low Probability and High Intensity Events on Wind Power Generator's Market Participation. IEEE Access, 2022, 10, 18093-18104.	4.2	3
62	Short Term Electricity Procurement of Large Consumers Considering Tidal Power and Electricity Price Uncertainties. , 2018, , .		2
63	An Improved Binary Grey Wolf Optimizer (IBGWO) for Unit Commitment Problem in Thermal Generation. , 2019, , .		2
64	Process Optimization of Biodiesel Production Using the Laplacian Harris Hawk Optimization (LHHO) Algorithm. Modelling and Simulation in Engineering, 2022, 2022, 1-13.	0.7	2
65	Artificial intelligence for water–energy nexus demand forecasting: a review. International Journal of Low-Carbon Technologies, 2022, 17, 730-744.	2.6	2
66	Cascading Failure Analysis Based Early Design for a Complex Engineering System. , 2019, , .		1
67	Uncertainty Cost Functions in Climate-Dependent Controllable Loads in Commercial Environments. Energies, 2021, 14, 2885.	3.1	1
68	Research, Development and Application of Hybrid Model of Back-to-Back HVDC Link. IEEE Access, 2020, 8, 174860-174870.	4.2	0
69	Experimental Validation of Low Voltage Ride Through for Laboratory Scale Renewable Energy Conversion Systems Applications. , 2020, , .		0
70	Performance Evaluation of Second Order Generalized Integrator-Quadrature Algorithm for DSTATCOM in Non-ideal Grid. , 2020, , .		0
71	A comprehensive multi-objective design for optimal load restoration. , 2020, , .		0