

Amer Al-Hinai

List of Publications by Year in descending order

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83
papers

2,095
citations

430442

18
h-index

264894

42
g-index

84
all docs

84
docs citations

84
times ranked

1559
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of energy storage services, applications, limitations, and benefits. Energy Reports, 2020, 6, 288-306.	2.5	327
2	Conversion of biomass to biofuels and life cycle assessment: a review. Environmental Chemistry Letters, 2021, 19, 4075-4118.	8.3	263
3	Hydrogen production, storage, utilisation and environmental impacts: a review. Environmental Chemistry Letters, 2022, 20, 153-188.	8.3	218
4	Optimal Coordination of Directional Overcurrent Relays Using a New Time-Current-Voltage Characteristic. IEEE Transactions on Power Delivery, 2015, 30, 537-544.	2.9	178
5	Wind speed and solar irradiance forecasting techniques for enhanced renewable energy integration with the grid: a review. IET Renewable Power Generation, 2016, 10, 885-989.	1.7	133
6	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.	6.2	65
7	Bioethanol and biodiesel: Bibliometric mapping, policies and future needs. Renewable and Sustainable Energy Reviews, 2021, 152, 111677.	8.2	65
8	Dynamic model of a microturbine used as a distributed generator. , 0, , .		49
9	Coordinated Frequency Control Strategy for an Islanded Microgrid With Demand Side Management Capability. IEEE Transactions on Energy Conversion, 2018, 33, 639-651.	3.7	48
10	An Efficient Mathematical Model for Distribution System Reconfiguration Using AMPL. IEEE Access, 2021, 9, 79961-79993.	2.6	48
11	Optimal Multi-Operation Energy Management in Smart Microgrids in the Presence of RESs Based on Multi-Objective Improved DE Algorithm: Cost-Emission Based Optimization. Applied Sciences (Switzerland), 2021, 11, 3661.	1.3	42
12	Beyond environmental Kuznets curve and policy implications to promote sustainable development in Mediterranean. Energy Reports, 2021, 7, 6119-6129.	2.5	39
13	Decarbonize Russia - A Best-Worst Method approach for assessing the renewable energy potentials, opportunities and challenges. Energy Reports, 2021, 7, 4498-4515.	2.5	37
14	Dual-setting characteristic for directional overcurrent relays considering multiple fault locations. IET Generation, Transmission and Distribution, 2015, 9, 1332-1340.	1.4	32
15	Control of grid-connected split-shaft microturbine distributed generator. , 0, , .		30
16	Coordinated control of distributed energy resources to support load frequency control. Energy Conversion and Management, 2015, 105, 918-928.	4.4	28
17	Coordinated intelligent frequency control incorporating battery energy storage system, minimum variable contribution of demand response, and variable load damping coefficient in isolated power systems. Energy Reports, 2021, 7, 8030-8041.	2.5	25
18	A Novel Solution for Day-Ahead Scheduling Problems Using the IoT-Based Bald Eagle Search Optimization Algorithm. Inventions, 2022, 7, 48.	1.3	23

#	ARTICLE	IF	CITATIONS
19	Improved mechanical strength, proton conductivity and power density in an "all-protonic" ceramic fuel cell at intermediate temperature. <i>Scientific Reports</i> , 2021, 11, 19382.	1.6	21
20	Integrated modeling and feasibility analysis of a rooftop photovoltaic systems for an academic building in Bangladesh. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 1317-1327.	1.2	21
21	Adaptive control of grid connected photovoltaic inverter for maximum VA utilization. , 2013, , .		19
22	Unbalance in power systems: Case study. , 2015, , .		17
23	Adaptive Fuzzy Approximation Control of PV Grid-Connected Inverters. <i>Energies</i> , 2021, 14, 942.	1.6	17
24	Dynamic stability enhancement using Particle Swarm Optimization Power System Stabilizer. , 2009, , .		16
25	Offshore Wind Energy Resource Assessment across the Territory of Oman: A Spatial-Temporal Data Analysis. <i>Sustainability</i> , 2021, 13, 2862.	1.6	16
26	Fourier Singular Values-Based False Data Injection Attack Detection in AC Smart-Grids. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5706.	1.3	16
27	Offshore wind potential and wind atlas over the Oman Maritime Zone. <i>Energy, Ecology and Environment</i> , 2019, 4, 1-14.	1.9	15
28	Prediction of Metallic Conductor Voltage Owing to Electromagnetic Coupling Via a Hybrid ANFIS and Backtracking Search Algorithm. <i>Energies</i> , 2019, 12, 3651.	1.6	15
29	Adaptive coordinated feeder flow control in distribution system with the support of distributed energy resources. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 85, 190-199.	3.3	14
30	A review of recent renewable energy status and potentials in Oman. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101919.	1.7	13
31	Dynamic stability enhancement using Genetic Algorithm Power System Stabilizer. , 2010, , .		12
32	Novel Approach for Rooftop Detection Using Support Vector Machine. , 2013, 2013, 1-11.		12
33	Experimental Study on the Effect of Dust Deposition on a Car Park Photovoltaic System with Different Cleaning Cycles. <i>Sustainability</i> , 2021, 13, 7636.	1.6	12
34	Economic Analysis of Replacing HPS Lamp with LED Lamp and Cost Estimation to Set Up PV/Battery System for Street Lighting in Oman. <i>Energies</i> , 2021, 14, 7697.	1.6	11
35	Optimal Sizing of a Hybrid Wind-Photovoltaic-Battery Plant to Mitigate Output Fluctuations in a Grid-Connected System. <i>Energies</i> , 2020, 13, 3015.	1.6	10
36	Co-optimisation of wind farm micro-siting and cabling layouts. <i>IET Renewable Power Generation</i> , 2021, 15, 1848-1860.	1.7	10

#	ARTICLE	IF	CITATIONS
37	A Real-Time Monitoring Platform for Distributed Energy Resources in a Microgridâ€”Pilot Study in Oman. Electronics (Switzerland), 2021, 10, 1803.	1.8	10
38	Analysis of Electric Vehicles with an Economic Perspective for the Future Electric Market. Future Internet, 2022, 14, 172.	2.4	10
39	Enhancement of islanded droop-controlled microgrid performance via power filter design. , 2014, , .		8
40	Measurements and evaluation of harmonics in HV networks — Oman MIS case study. , 2013, , .		7
41	Optimal allocation of solar PV systems in rural areas using genetic algorithms: a case study. International Journal of Sustainable Engineering, 2013, 6, 301-306.	1.9	7
42	Adaptive Interval Type-2 Fuzzy Tracking Control of PV Grid-Connected Inverters. IEEE Access, 2021, 9, 130853-130861.	2.6	7
43	A vision of flexible dispatchable hybrid solarâ€”windâ€”energy storage power plant. IET Renewable Power Generation, 2021, 15, 2983-2996.	1.7	7
44	A multi-agent system for distribution network restoration in future smart grids. Energy Reports, 2021, 7, 8083-8090.	2.5	7
45	Development of Control Techniques Using Modified Fuzzy Based SAPF for Power Quality Enhancement. IEEE Access, 2021, 9, 68396-68413.	2.6	7
46	A review of concepts in power system stability. , 2015, , .		6
47	Influence of design parameters and defects on electric field distributions inside MV cable joints. , 2016, , .		6
48	Optimal Sizing of Hybrid Wind-Solar Power Systems to Suppress Output Fluctuation. Energies, 2021, 14, 5377.	1.6	6
49	Rooftop Detection for Planning of Solar PV Deployment: A Case Study in Abu Dhabi. Lecture Notes in Computer Science, 2014, , 137-149.	1.0	6
50	Optimization and techno-economic analysis of PV/Battery system for street lighting using genetic algorithm â€” A case study in Oman. Cleaner Engineering and Technology, 2022, 8, 100475.	2.1	6
51	HV impulse parameter estimation using ESPRIT-based method. , 2011, , .		5
52	Automatic Rooftop Detection Using a Two-Stage Classification. , 2014, , .		5
53	Coordinated voltage control of solar PV with MPPT and battery storage in grid-connected and microgrid modes. , 2016, , .		5
54	An Accurate, Light-Weight Wind Speed Predictor for Renewable Energy Management Systems. Energies, 2019, 12, 4355.	1.6	5

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55	A Simple Method for Detecting Partial Shading in PV Systems. Energies, 2021, 14, 4938.	1.6	5
56	Optimal Allocation of Renewable-Based DG Resources in Rural Areas Using Genetic Algorithms. , 2012, , .		4
57	Decentralized sliding mode control for load frequency problem in three - Area power systems. , 2015, , .		4
58	Voltage stability assessment of a microgrid. , 2015, , .		4
59	Robust automatic generation control with saturated input using the ellipsoid method. International Transactions on Electrical Energy Systems, 2018, 28, e2483.	1.2	4
60	Robust Operation of Hybrid Solar-Wind Power Plant with Battery Energy Storage System. Energies, 2021, 14, 3781.	1.6	4
61	Active distribution network with efficient utilisation of distributed generation ancillary services. IET Smart Grid, 2018, 1, 151-158.	1.5	3
62	Economic Dispatch of Oman's Main Interconnected System in Presence of 500MW Solar PV Plant in lbri. , 2019, , .		3
63	Robust Decentralized Tracking Voltage Control for Islanded Microgrids by Invariant Ellipsoids. Energies, 2020, 13, 5756.	1.6	3
64	Microturbines load following controller design in deregulated power distribution systems. , 2008, , .		2
65	Designing of filter to reduce harmonic in industrial power networks. , 2014, , .		2
66	Reduction of electric-field intensification and hot-spot formation inside cable terminations. , 2014, , .		2
67	Real-Time Monitoring and Control of a Microgrid - Pilot Project: Hardware and Software. , 2019, , .		2
68	Measurements and Evaluation of Flicker in High Voltage Networks. Renewable Energy and Power Quality Journal, 0, , 38-43.	0.2	2
69	Constructing A Multi-Microgrid with the Inclusion of Renewable Energy in Oman's Rural Power System. Journal of Engineering Research, 2017, 13, 61.	0.2	2
70	Voltage stability of microgrids. , 2019, , 327-376.		2
71	A Fast and Accurate Wind Speed and Direction Nowcasting Model for Renewable Energy Management Systems. Energies, 2021, 14, 7878.	1.6	2
72	Optimal Scheduling for Dispatchable Renewable Energy Generation. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
73	Enhancing electricity supply mix in Oman with energy storage systems: a case study. International Journal of Sustainable Engineering, 2021, 14, 487-496.	1.9	1
74	Loss Reduction in Isolated Rural Area Distribution Network Using Photovoltaic System. Journal of Engineering Research, 2017, 12, 51.	0.2	1
75	Micro-Grid Educational Laboratory Modernization using IEDs. , 2022, , .		1
76	Parameters identification of 11-phase Torus generator using particle swarm optimization technique. , 2008, , .		0
77	Small-disturbance stability of Oman/UAE interconnected system. , 2013, , .		0
78	A review of reactive compensation in the Main Interconnected System of Oman. , 2015, , .		0
79	Coordinated control for frequency regulation in microgrids using RES, battery storage and demand response. , 2017, , .		0
80	Lightning Impulse Parameter Estimation Using Nonlinear Least Squares Algorithm. , 2019, , .		0
81	Dynamic Voltage Stabilization by Excitation Control: an Industrial Area Study System. , 2020, , .		0
82	Adaptive Fuzzy Control of Three-Phase Grid-Connected Inverter. , 2021, , .		0
83	Introduction to Special Issue on Modern Power Systems And stainability. International Journal of Computing and Digital Systems, 2017, 6, 311-316.	0.5	0