

Amer Al-Hinai

List of Publications by Year in descending order

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Version: 2024-02-01

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	Hydrogen production, storage, utilisation and environmental impacts: a review. Environmental Chemistry Letters, 2022, 20, 153-188.	8.3	218
2	A review of recent renewable energy status and potentials in Oman. Sustainable Energy Technologies and Assessments, 2022, 51, 101919.	1.7	13
3	Optimization and techno-economic analysis of PV/Battery system for street lighting using genetic algorithm – A case study in Oman. Cleaner Engineering and Technology, 2022, 8, 100475.	2.1	6
4	Micro-Grid Educational Laboratory Modernization using IEDs. , 2022, , .		1
5	Analysis of Electric Vehicles with an Economic Perspective for the Future Electric Market. Future Internet, 2022, 14, 172.	2.4	10
6	A Novel Solution for Day-Ahead Scheduling Problems Using the IoT-Based Bald Eagle Search Optimization Algorithm. Inventions, 2022, 7, 48.	1.3	23
7	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
8	An Efficient Mathematical Model for Distribution System Reconfiguration Using AMPL. IEEE Access, 2021, 9, 79961-79993.	2.6	48
9	Adaptive Interval Type-2 Fuzzy Tracking Control of PV Grid-Connected Inverters. IEEE Access, 2021, 9, 130853-130861.	2.6	7
10	Adaptive Fuzzy Approximation Control of PV Grid-Connected Inverters. Energies, 2021, 14, 942.	1.6	17
11	Co-optimisation of wind farm micro-siting and cabling layouts. IET Renewable Power Generation, 2021, 15, 1848-1860.	1.7	10
12	Offshore Wind Energy Resource Assessment across the Territory of Oman: A Spatial-Temporal Data Analysis. Sustainability, 2021, 13, 2862.	1.6	16
13	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
14	Adaptive Fuzzy Control of Three-Phase Grid-Connected Inverter. , 2021, , .		0
15	Robust Operation of Hybrid Solar-Wind Power Plant with Battery Energy Storage System. Energies, 2021, 14, 3781.	1.6	4
16	A vision of flexible dispatchable hybrid solar-wind energy storage power plant. IET Renewable Power Generation, 2021, 15, 2983-2996.	1.7	7
17	Fourier Singular Values-Based False Data Injection Attack Detection in AC Smart-Grids. Applied Sciences (Switzerland), 2021, 11, 5706.	1.3	16
18	A Real-Time Monitoring Platform for Distributed Energy Resources in a Microgrid – Pilot Study in Oman. Electronics (Switzerland), 2021, 10, 1803.	1.8	10

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19	Conversion of biomass to biofuels and life cycle assessment: a review. Environmental Chemistry Letters, 2021, 19, 4075-4118.	8.3	263
20	Experimental Study on the Effect of Dust Deposition on a Car Park Photovoltaic System with Different Cleaning Cycles. Sustainability, 2021, 13, 7636.	1.6	12
21	A Simple Method for Detecting Partial Shading in PV Systems. Energies, 2021, 14, 4938.	1.6	5
22	Optimal Sizing of Hybrid Wind-Solar Power Systems to Suppress Output Fluctuation. Energies, 2021, 14, 5377.	1.6	6
23	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
24	Improved mechanical strength, proton conductivity and power density in an all-protonic ceramic fuel cell at intermediate temperature. Scientific Reports, 2021, 11, 19382.	1.6	21
25	A multi-agent system for distribution network restoration in future smart grids. Energy Reports, 2021, 7, 8083-8090.	2.5	7
26	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
27	Beyond environmental Kuznets curve and policy implications to promote sustainable development in Mediterranean. Energy Reports, 2021, 7, 6119-6129.	2.5	39
28	Bioethanol and biodiesel: Bibliometric mapping, policies and future needs. Renewable and Sustainable Energy Reviews, 2021, 152, 111677.	8.2	65
29	Development of Control Techniques Using Modified Fuzzy Based SAPF for Power Quality Enhancement. IEEE Access, 2021, 9, 68396-68413.	2.6	7
30	Integrated modeling and feasibility analysis of a rooftop photovoltaic systems for an academic building in Bangladesh. International Journal of Low-Carbon Technologies, 2021, 16, 1317-1327.	1.2	21
31	Economic Analysis of Replacing HPS Lamp with LED Lamp and Cost Estimation to Set Up PV/Battery System for Street Lighting in Oman. Energies, 2021, 14, 7697.	1.6	11
32	A Fast and Accurate Wind Speed and Direction Nowcasting Model for Renewable Energy Management Systems. Energies, 2021, 14, 7878.	1.6	2
33	Dynamic Voltage Stabilization by Excitation Control: an Industrial Area Study System. , 2020, , .		0
34	Review of energy storage services, applications, limitations, and benefits. Energy Reports, 2020, 6, 288-306.	2.5	327
35	Robust Decentralized Tracking Voltage Control for Islanded Microgrids by Invariant Ellipsoids. Energies, 2020, 13, 5756.	1.6	3
36	Optimal Scheduling for Dispatchable Renewable Energy Generation. , 2020, , .		1

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37	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
38	Economic Dispatch of Oman's Main Interconnected System in Presence of 500MW Solar PV Plant in Ibri. , 2019, , .		3
39	Lightning Impulse Parameter Estimation Using Nonlinear Least Squares Algorithm. , 2019, , .		0
40	Offshore wind potential and wind atlas over the Oman Maritime Zone. <i>Energy, Ecology and Environment</i> , 2019, 4, 1-14.	1.9	15
41	Real-Time Monitoring and Control of a Microgrid - Pilot Project: Hardware and Software. , 2019, , .		2
42	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
43	An Accurate, Light-Weight Wind Speed Predictor for Renewable Energy Management Systems. <i>Energies</i> , 2019, 12, 4355.	1.6	5
44	A Control Strategy for Voltage Unbalance Mitigation in an Islanded Microgrid Considering Demand Side Management Capability. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 2558-2568.	6.2	65
45	Voltage stability of microgrids. , 2019, , 327-376.		2
46	Robust automatic generation control with saturated input using the ellipsoid method. <i>International Transactions on Electrical Energy Systems</i> , 2018, 28, e2483.	1.2	4
47	Coordinated Frequency Control Strategy for an Islanded Microgrid With Demand Side Management Capability. <i>IEEE Transactions on Energy Conversion</i> , 2018, 33, 639-651.	3.7	48
48	Active distribution network with efficient utilisation of distributed generation ancillary services. <i>IET Smart Grid</i> , 2018, 1, 151-158.	1.5	3
49	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
50	Coordinated control for frequency regulation in microgrids using RES, battery storage and demand response. , 2017, , .		0
51	Loss Reduction in Isolated Rural Area Distribution Network Using Photovoltaic System. <i>Journal of Engineering Research</i> , 2017, 12, 51.	0.2	1
52	Introduction to Special Issue on Modern Power Systems And sustainability. <i>International Journal of Computing and Digital Systems</i> , 2017, 6, 311-316.	0.5	0
53	Constructing A Multi-Microgrid with the Inclusion of Renewable Energy in Oman's Rural Power System. <i>Journal of Engineering Research</i> , 2017, 13, 61.	0.2	2
54	Influence of design parameters and defects on electric field distributions inside MV cable joints. , 2016, , .		6

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55	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
56	Coordinated voltage control of solar PV with MPPT and battery storage in grid-connected and microgrid modes. , 2016, , .		5
57	Unbalance in power systems: Case study. , 2015, , .		17
58	Decentralized sliding mode control for load frequency problem in three - Area power systems. , 2015, , .		4
59	A review of reactive compensation in the Main Interconnected System of Oman. , 2015, , .		0
60	Voltage stability assessment of a microgrid. , 2015, , .		4
61	A review of concepts in power system stability. , 2015, , .		6
62	Dualâ€‘setting characteristic for directional overcurrent relays considering multiple fault locations. IET Generation, Transmission and Distribution, 2015, 9, 1332-1340.	1.4	32
63	Coordinated control of distributed energy resources to support load frequency control. Energy Conversion and Management, 2015, 105, 918-928.	4.4	28
64	Optimal Coordination of Directional Overcurrent Relays Using a New Timeâ€‘Currentâ€‘Voltage Characteristic. IEEE Transactions on Power Delivery, 2015, 30, 537-544.	2.9	178
65	Designing of filter to reduce harmonic in industrial power networks. , 2014, , .		2
66	Enhancement of islanded droop-controlled microgrid performance via power filter design. , 2014, , .		8
67	Reduction of electric-field intensification and hot-spot formation inside cable terminations. , 2014, , .		2
68	Automatic Rooftop Detection Using a Two-Stage Classification. , 2014, , .		5
69	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
70	Small-disturbance stability of Oman/UAE interconnected system. , 2013, , .		0
71	Measurements and evaluation of harmonics in HV networks — Oman MIS case study. , 2013, , .		7
72	Adaptive control of grid connected photovoltaic inverter for maximum VA utilization. , 2013, , .		19

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73	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
74	Novel Approach for Rooftop Detection Using Support Vector Machine. , 2013, 2013, 1-11.		12
75	Optimal Allocation of Renewable-Based DG Resources in Rural Areas Using Genetic Algorithms. , 2012, , .		4
76	HV impulse parameter estimation using ESPRIT-based method. , 2011, , .		5
77	Dynamic stability enhancement using Genetic Algorithm Power System Stabilizer. , 2010, , .		12
78	Dynamic stability enhancement using Particle Swarm Optimization Power System Stabilizer. , 2009, , .		16
79	Parameters identification of 11-phase Torus generator using particle swarm optimization technique. , 2008, , .		0
80	Microturbines load following controller design in deregulated power distribution systems. , 2008, , .		2
81	Dynamic model of a microturbine used as a distributed generator. , 0, , .		49
82	Control of grid-connected split-shaft microturbine distributed generator. , 0, , .		30
83	Measurements and Evaluation of Flicker in High Voltage Networks. Renewable Energy and Power Quality Journal, 0, , 38-43.	0.2	2