

Ashfaq Ahmad

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,228
citations

218381

26
h-index

243296

44
g-index

58
all docs

58
docs citations

58
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of work productivity outcomes by identifying critical risk factors among garment industry workers. <i>International Journal of Occupational Safety and Ergonomics</i> , 2022, 28, 2238-2249.	1.1	1
2	Optimal Sizing and Management of Distributed Energy Resources in Smart Buildings. <i>Energy</i> , 2022, 244, 123110.	4.5	5
3	A Joint Optimization Model for Energy and Reserve Capacity Scheduling With the Integration of Variable Energy Resources. <i>IEEE Access</i> , 2021, 9, 75252-75264.	2.6	0
4	Packetized Energy Management Controller for Residential Consumers. , 2021, , .		2
5	Real-Time Load Scheduling and Storage Management for Solar Powered Network Connected EVs. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 1220-1235.	5.9	23
6	Investigating tension in overhead high voltage power transmission line using finite element method. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 114, 105418.	3.3	9
7	Real-Time Load Scheduling, Energy Storage Control and Comfort Management for Grid-Connected Solar Integrated Smart Buildings. <i>Applied Energy</i> , 2020, 259, 114208.	5.1	29
8	A Combined Deep Learning and Ensemble Learning Methodology to Avoid Electricity Theft in Smart Grids. <i>Energies</i> , 2020, 13, 5599.	1.6	35
9	Defect Detection and Degradation Analysis in Photovoltaic Modules using Thermography, Spectroscopy, and Current-Voltage Measurements, and Quantitative Assessment of Their Impact. <i>Energy Technology</i> , 2020, 8, 2000100.	1.8	1
10	Automatic detection of photovoltaic module defects in infrared images with isolated and develop-model transfer deep learning. <i>Solar Energy</i> , 2020, 198, 175-186.	2.9	113
11	Photovoltaic cell defect classification using convolutional neural network and support vector machine. <i>IET Renewable Power Generation</i> , 2020, 14, 2693-2702.	1.7	25
12	Support vector machine based prediction of photovoltaic module and power station parameters. <i>International Journal of Green Energy</i> , 2020, 17, 219-232.	2.1	7
13	Roof-Top Stand-Alone PV Micro-Grid: A Joint Real-Time BES Management, Load Scheduling and Energy Procurement From a Peaker Generator. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 3895-3909.	6.2	20
14	CNN based automatic detection of photovoltaic cell defects in electroluminescence images. <i>Energy</i> , 2019, 189, 116319.	4.5	145
15	Improved outdoor thermography and processing of infrared images for defect detection in PV modules. <i>Solar Energy</i> , 2019, 190, 549-560.	2.9	47
16	Short-Term Load Forecasting in Smart Grids: An Intelligent Modular Approach. <i>Energies</i> , 2019, 12, 164.	1.6	84
17	Real-time Energy Management of Solar-integrated Electric Vehicles as-service-over Vehicular Fog. , 2019, , .		0
18	CASA-Crowd: A Context-Aware Scale Aggregation CNN-Based Crowd Counting Technique. <i>IEEE Access</i> , 2019, 7, 182050-182059.	2.6	14

#	ARTICLE	IF	CITATIONS
19	Thermo-mechanical behavior assessment of smart wire connected and busbarPV modules during production, transportation, and subsequent field loading stages. Energy, 2019, 168, 931-945.	4.5	33
20	DRADS: depth and reliability aware delay sensitive cooperative routing for underwater wireless sensor networks. Wireless Networks, 2019, 25, 777-789.	2.0	32
21	Short Circuit Stress Analysis Using FEM in Power Transformer on H-V Winding Displaced Vertically & Horizontally. AEJ - Alexandria Engineering Journal, 2018, 57, 147-157.	3.4	13
22	Stand-Alone Distributed PV Systems: Maximizing Self Consumption and User Comfort using ANNs. , 2018, , .		0
23	A Joint Real Time Optimization of Household Loads, Energy Storage and Peak Generator for Stand-Alone Distributed PV Systems. , 2018, , .		2
24	Region based cooperative routing in underwater wireless sensor networks. Journal of Network and Computer Applications, 2017, 92, 31-41.	5.8	37
25	Balanced Load Distribution With Energy Hole Avoidance in Underwater WSNs. IEEE Access, 2017, 5, 15206-15221.	2.6	41
26	On energy efficiency in underwater wireless sensor networks with cooperative routing. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 173-188.	1.6	28
27	An Accurate and Fast Converging Short-Term Load Forecasting Model for Industrial Applications in a Smart Grid. IEEE Transactions on Industrial Informatics, 2017, 13, 2587-2596.	7.2	107
28	SPARCO: Stochastic Performance Analysis with Reliability and Cooperation for Underwater Wireless Sensor Networks. Journal of Sensors, 2016, 2016, 1-17.	0.6	15
29	An Enhanced Energy Balanced Data Transmission Protocol for Underwater Acoustic Sensor Networks. Sensors, 2016, 16, 487.	2.1	59
30	Energy Optimization in Smart Homes Using Customer Preference and Dynamic Pricing. Energies, 2016, 9, 593.	1.6	40
31	Modeling induction and routing to monitor hospitalized patients in multi-hop mobility-aware body area sensor networks. Eurasip Journal on Wireless Communications and Networking, 2016, 2016, .	1.5	5
32	An Advanced Energy Consumption Model for terrestrial Wireless Sensor Networks. , 2016, , .		12
33	BIETX: A new quality link metric for Static Wireless Multi-hop Networks. , 2016, , .		2
34	Exploiting heuristic algorithms to efficiently utilize energy management controllers with renewable energy sources. Energy and Buildings, 2016, 129, 452-470.	3.1	257
35	Priority and delay constrained demand side management in real-time price environment with renewable energy source. International Journal of Energy Research, 2016, 40, 2002-2021.	2.2	56
36	Energy Efficient and Reliable Data Gathering in Underwater WSNs. , 2016, , .		1

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37	Power allocation for uplink SC-FDMA systems with arbitrary input distribution. Electronics Letters, 2016, 52, 111-113.	0.5	3
38	On Energy Hole and Coverage Hole Avoidance in Underwater Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 4431-4442.	2.4	77
39	COME: cost optimisation with multi-chaining for energy efficient communication in wireless sensor networks. International Journal of Ad Hoc and Ubiquitous Computing, 2015, 20, 186.	0.3	7
40	An Efficient Power Scheduling Scheme for Residential Load Management in Smart Homes. Applied Sciences (Switzerland), 2015, 5, 1134-1163.	1.3	107
41	A Modified Feature Selection and Artificial Neural Network-Based Day-Ahead Load Forecasting Model for a Smart Grid. Applied Sciences (Switzerland), 2015, 5, 1756-1772.	1.3	43
42	DEADS: Depth and Energy Aware Dominating Set Based Algorithm for Cooperative Routing along with Sink Mobility in Underwater WSNs. Sensors, 2015, 15, 14458-14486.	2.1	92
43	An Efficient Data-Gathering Routing Protocol for Underwater Wireless Sensor Networks. Sensors, 2015, 15, 29149-29181.	2.1	58
44	Co-LAEEBA: Cooperative link aware and energy efficient protocol for wireless body area networks. Computers in Human Behavior, 2015, 51, 1205-1215.	5.1	97
45	iM-SIMPLE: iMproved stable increased-throughput multi-hop link efficient routing protocol for Wireless Body Area Networks. Computers in Human Behavior, 2015, 51, 1003-1011.	5.1	110
46	A Survey of 'User Comfort' in Home Energy Management Systems in Smart Grid. , 2015, , .		7
47	Demand Response: From Classification to Optimization Techniques in Smart Grid. , 2015, , .		8
48	A Fatigue Measuring Protocol for Wireless Body Area Sensor Networks. Journal of Medical Systems, 2015, 39, 193.	2.2	7
49	Performance Evaluation of Experimental Setups in Home Energy Management Systems in Smart Grid. , 2015, , .		1
50	A Relay Based Routing Protocol for Wireless In-Body Sensor Networks. Wireless Personal Communications, 2015, 80, 1063-1078.	1.8	26
51	Hop Adjusted Multi-chain Routing for Energy Efficiency in Wireless Sensor Networks. Procedia Computer Science, 2014, 37, 236-243.	1.2	1
52	iA-MAC: Improved Adaptive Medium Access Control protocol for Wireless Body Area Networks. , 2014, , .		8
53	Adaptive Medium Access Control Protocol for Wireless Body Area Networks. International Journal of Distributed Sensor Networks, 2014, 10, 254397.	1.3	22
54	RE-ATTEMPT: A New Energy-Efficient Routing Protocol for Wireless Body Area Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 464010.	1.3	88

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55	MCEEC: Multi-hop Centralized Energy Efficient Clustering routing protocol for WSNs. , 2014, , .		4
56	$\frac{ACH^2}{ACH}$: Routing Scheme to Maximize Lifetime and Throughput of Wireless Sensor Networks. IEEE Sensors Journal, 2014, 14, 3516-3532.	2.4	94
57	Divide-and-Rule Scheme for Energy Efficient Routing in Wireless Sensor Networks. Procedia Computer Science, 2013, 19, 340-347.	1.2	34
58	Density controlled divide-and-rule scheme for energy efficient routing in Wireless Sensor Networks. , 2013, , .		34