M Tariq Iqbal

List of Publications by Year
in descending order

128 papers	3,505 citations	236833 25 h-index	155592 55 g-index
129 all docs	129 docs citations	129 times ranked	2974 citing authors

#	Article	IF	Citations
1	Hydrokinetic energy conversion systems and assessment of horizontal and vertical axis turbines for river and tidal applications: A technology status review. Applied Energy, 2009, 86, 1823-1835.	5.1	606
2	Pre-feasibility study of stand-alone hybrid energy systems for applications in Newfoundland. Renewable Energy, 2005, 30, 835-854.	4.3	428
3	River current energy conversion systems: Progress, prospects and challenges. Renewable and Sustainable Energy Reviews, 2008, 12, 2177-2193.	8.2	192
4	Analysis of a small wind-hydrogen stand-alone hybrid energy system. Applied Energy, 2009, 86, 2429-2442.	5.1	137
5	Modelling and Analysis of Electro-chemical, Thermal, and Reactant Flow Dynamics for a PEM Fuel Cell System. Fuel Cells, 2005, 5, 463-475.	1.5	133
6	Modeling and control of a wind fuel cell hybrid energy system. Renewable Energy, 2003, 28, 223-237.	4.3	120
7	Selection of a curved switching surface for buck converters. IEEE Transactions on Power Electronics, 2006, 21, 1148-1153.	5.4	104
8	Life Cycle Analysis of wind–fuel cell integrated system. Renewable Energy, 2005, 30, 157-177.	4.3	101
9	Real-time fault diagnosis using knowledge-based expert system. Chemical Engineering Research and Design, 2008, 86, 55-71.	2.7	96
10	A feasibility study of a zero energy home in Newfoundland. Renewable Energy, 2004, 29, 277-289.	4.3	95
11	A review of integrating ice detection and mitigation for wind turbine blades. Renewable and Sustainable Energy Reviews, 2019, 103, 269-281.	8.2	86
12	Simulation of a small wind fuel cell hybrid energy system. Renewable Energy, 2003, 28, 511-522.	4.3	74
13	Low-Cost, Open Source IoT-Based SCADA System Design Using Thinger.IO and ESP32 Thing. Electronics (Switzerland), 2019, 8, 822.	1.8	74
14	Reliability analysis of grid connected small wind turbine power electronics. Applied Energy, 2009, 86, 1617-1623.	5.1	73
15	Advanced Boundary Control of Inverters Using the Natural Switching Surface: Normalized Geometrical Derivation. IEEE Transactions on Power Electronics, 2008, 23, 2915-2930.	5.4	54
16	Energy capture by a small wind-energy conversion system. Applied Energy, 2008, 85, 41-51.	5.1	53
17	A wind map of Bangladesh. Renewable Energy, 2004, 29, 643-660.	4.3	50
18	Design and implementation of a low cost web server using ESP32 for real-time photovoltaic system monitoring. , 2017, , .		43

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19	An Embedded Frequency Response Analyzer for Fuel Cell Monitoring and Characterization. IEEE Transactions on Industrial Electronics, 2010, 57, 1925-1934.	5.2	42
20	Facile synthesis of ZnO nanosheets: Structural, antibacterial and photocatalytic studies. Materials Letters, 2018, 224, 59-63.	1.3	42
21	Development of an IoT Based Open Source SCADA System for PV System Monitoring. , 2019, , .		39
22	Dynamic Modelling and Simulation of a Fuel Cell Generator. Fuel Cells, 2005, 5, 97-104.	1.5	37
23	Comparing bisection numerical algorithm with fractional short circuit current and open circuit voltage methods for MPPT photovoltaic systems. , 2016, , .		36
24	Dynamic Modelling of a Solar Water Pumping System with Energy Storage. Journal of Solar Energy, 2018, 2018, 1-12.	0.8	36
25	Wind energy resource map of Newfoundland. Renewable Energy, 2004, 29, 1211-1221.	4.3	29
26	Solar Water Pumping System Control Using a Low Cost ESP32 Microcontroller. , 2018, , .		28
27	Convolutional Neural Network for Copy-Move Forgery Detection. Symmetry, 2019, 11, 1280.	1.1	28
28	Design and implementation of an open-Source IoT and blockchain-based peer-to-peer energy trading platform using ESP32-S2, Node-Red and, MQTT protocol. Energy Reports, 2021, 7, 5733-5746.	2.5	28
29	Copy-Move Forgery Detection and Localization Using a Generative Adversarial Network and Convolutional Neural-Network. Information (Switzerland), 2019, 10, 286.	1.7	27
30	Design and implementation of a low-cost, open source IoT-based SCADA system using ESP32 with OLED, ThingsBoard and MQTT protocol. AIMS Electronics and Electrical Engineering, 2020, 4, 57-86.	0.8	26
31	Pre-feasibility study of wind power generation in holyrood, newfoundland. Renewable Energy, 2006, 31, 489-502.	4.3	25
32	Wind energy resource map of Labrador. Renewable Energy, 2005, 30, 989-1004.	4.3	20
33	Dynamic Modeling, Control, and Analysis of a Solar Water Pumping System for Libya. Journal of Renewable Energy, 2017, 2017, 1-13.	2.1	19
34	Design and Analysis of a Stand-Alone PV System for a Rural House in Pakistan. International Journal of Photoenergy, 2019, 2019, 1-8.	1.4	19
35	Controller for a small induction-generator based wind-turbine. Applied Energy, 2008, 85, 218-227.	5.1	17
36	Riskâ€based fault diagnosis and safety management for process systems. Process Safety Progress, 2011, 30, 6-17.	0.4	17

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37	In vitro Studies on Cytotoxic, DNA Protecting, Antibiofilm and Antibacterial Effects of Biogenic Silver Nanoparticles Prepared with Bergenia ciliata Rhizome Extract. Current Pharmaceutical Biotechnology, 2018, 19, 68-78.	0.9	17
38	Low-Cost ESP32, Raspberry Pi, Node-Red, and MQTT Protocol Based SCADA System. , 2020, , .		15
39	Dynamics of a vertical axis hydrokinetic energy conversion system with a rectifier coupled multi-pole permanent magnet generator. IET Renewable Power Generation, 2010, 4, 116.	1.7	14
40	Compressed Air Energy Storage System Control and Performance Assessment Using Energy Harvested Index. Electronics (Switzerland), 2014, 3, 1-21.	1.8	14
41	Performance Comparison of Grid Connected Small Wind Energy Conversion Systems. Wind Engineering, 2009, 33, 1-17.	1.1	13
42	Low-cost and Secure Communication System for Remote Micro-grids using AES Cryptography on ESP32 with LoRa Module. , 2018, , .		13
43	Modeling, Analysis, and Design of a Fuzzy Logic Controller for an AHU in the S.J. Carew Building at Memorial University. Journal of Energy, 2018, 2018, 1-11.	1.4	13
44	Design and Dynamic Modelling of a Hybrid Power System for a House in Nigeria. International Journal of Photoenergy, 2019, 2019, 1-13.	1.4	13
45	Low-Cost Open Source IoT-Based SCADA System for a BTS Site Using ESP32 and Arduino IoT Cloud. , 2021, , .		13
46	A Low-Cost, Open-Source Peer-to-Peer Energy Trading System for a Remote Community Using the Internet-of-Things, Blockchain, and Hypertext Transfer Protocol. Energies, 2022, 15, 4862.	1.6	13
47	A permanent magnet generator with PCB stator for low speed marine current applications. , 2009, , .		12
48	Synergistic Antibacterial Efficacy of Biogenic Synthesized Silver Nanoparticles using Ajuga bractosa with Standard Antibiotics: A Study Against Bacterial Pathogens. Current Pharmaceutical Biotechnology, 2020, 21, 206-218.	0.9	12
49	Atmospheric pressure microplasma assisted growth of silver nanosheets and their inhibitory action against bacteria of clinical interest. Materials Research Express, 2016, 3, 125019.	0.8	11
50	A comparison of low cost wireless communication methods for remote control of grid-tied converters. , 2017, , .		11
51	Biofilm reduction, cell proliferation, anthelmintic and cytotoxicity effect of green synthesised silver nanoparticle using <i>Artemisia vulgaris</i> extract. IET Nanobiotechnology, 2018, 12, 71-77.	1.9	10
52	Low-Cost SCADA System Using Arduino and Reliance SCADA for a Stand-Alone Photovoltaic System. Journal of Solar Energy, 2018, 2018, 1-8.	0.8	10
53	Dynamic Modeling and Analysis of a Remote Hybrid Power System with Pumped Hydro Storage. International Journal of Energy Science, 2013, 3, 333.	0.6	10
54	Dynamic Modelling of Submersible Pump Based Solar Water-Pumping System with Three-Phase Induction Motor Using MATLAB. Journal of Power and Energy Engineering, 2020, 08, 20-64.	0.3	10

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55	Power Electronics Reliability Comparison of Grid Connected Small Wind Energy Conversion Systems. Wind Engineering, 2011, 35, 93-110.	1.1	8
56	Optimization and modeling of a stand-alone wind/PV hybrid energy system. , 2012, , .		8
57	Sizing and Dynamic Modeling of a Power System for the MUN Explorer Autonomous Underwater Vehicle Using a Fuel Cell and Batteries. Journal of Energy, 2019, 2019, 1-17.	1.4	8
58	Joining of Individual Silicon Carbide Nanowires Via Proton Beam Irradiation. Current Nanoscience, 2018, 14, 354-359.	0.7	8
59	Direct Model Reference Adaptive Control of a Boost Converter for Voltage Regulation in Microgrids. Energies, 2022, 15, 5080.	1.6	8
60	Voltage Fluctuations in a Remote Wind-Diesel Hybrid Power System. , 2008, , .		7
61	Optimization and a comparison between renewable and non-renewable energy systems for a telecommunication site. , 2012, , .		7
62	Optimal sizing of a stand-alone hybrid energy system for water pumping in Sirte, Libya. , 2016, , .		7
63	Copper oxide nanosheets prepared by facile microplasma electrochemical technique with photocatalytic and bactericidal activities. Journal of Materials Science: Materials in Electronics, 2020, 31, 16649-16660.	1.1	7
64	Optimal sizing and techno-economic analysis of a renewable power system for a remote oil well. AIMS Electronics and Electrical Engineering, 2020, 4, 132-153.	0.8	7
65	LoRa-based communication system for data transfer in microgrids. AIMS Electronics and Electrical Engineering, 2020, 4, 303-325.	0.8	7
66	Optimised Design and Analysis of Solar Water Pumping Systems for Pakistani Conditions. Energy and Power Engineering, 2020, 12, 521-542.	0.5	7
67	Development of a Low-cost LoRa based SCADA system for Monitoring and Supervisory Control of Small Renewable Energy Generation Systems. , 2020, , .		7
68	Effects of Efficiency Nonlinearity on the Overall Power Extraction: A Case Study of Hydrokinetic-Energy-Conversion Systems. IEEE Transactions on Energy Conversion, 2011, 26, 911-922.	3.7	6
69	Modelling of a large-scale solar powered water pumping system for irrigation in Saudi Arabia. , 2017, , .		6
70	Dynamic Modeling and Simulation of an Isolated Hybrid Power System in a Rural Area of China. Journal of Solar Energy, 2018, 2018, 1-13.	0.8	6
71	Development of an Economical SCADA System for Solar Water Pumping in Iran. , 2020, , .		6
72	Open Source IoT-Based SCADA System for Remote Oil Facilities Using Node-RED and Arduino Microcontrollers. , 2020, , .		6

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73	A Comparative Study of Solar Water Pump Storage Systems. , 2022, , .		6
74	Pre-Feasibility Study of a Wind-Diesel System for St. Brendan's, Newfoundland. Wind Engineering, 2003, 27, 39-51.	1.1	5
75	Grid connected energy storage system to profit from net-metering and variable rate electricity. , 2014, , .		5
76	Comparison between alternative droop control strategy, modified droop method and control algorithm technique for parallel-connected converters. AIMS Electronics and Electrical Engineering, 2021, 5, 1-23.	0.8	5
77	Microplasma-assisted electrochemical synthesis of ZnO nanostructures for photocatalytic and antibacterial applications. Physica Scripta, 2021, 96, 125801.	1.2	5
78	A Low Cost Method of Snow Detection on Solar Panels and Sending Alerts. Journal of Clean Energy Technologies, 2015, 3, 393-397.	0.1	5
79	Low-Cost and Secure Communication System for SCADA System of Remote Microgrids. Journal of Electrical and Computer Engineering, 2019, 2019, 1-12.	0.6	4
80	Microplasma-assisted synthesis of CuO nanostructures for catalytic degradation of organic dyes under solar irradiation. Journal of Solid State Electrochemistry, 2020, 24, 1123-1132.	1.2	4
81	Structural, Optical, Electrical, and Photocatalytic Properties of Nickel Cobaltite (NiCo2O4) Nanocomposite Fabricated by a Facile Microplasma Electrochemical Process. Journal of Electronic Materials, 2021, 50, 629-639.	1.0	4
82	Modeling and Control of a Grid Connected PAFC System. International Journal of Energy Science, 2014, 4, 69.	0.6	4
83	A Review of Conventional Fault Detection Techniques in Solar PV Systems and a Proposal of Long Range (LoRa) Wireless Sensor Network for Module Level Monitoring and Fault Diagnosis in Large Solar PV Farms. European Journal of Electrical Engineering and Computer Science, 2020, 4, .	0.5	4
84	Design and Analysis of Solar Water Pumping with Storage for Irrigation in Iran. , 2020, , .		4
85	Power tracking control challenges in Hydrokinetic energy conversion systems. , 2011, , .		3
86	Thermal Simulation and Energy Consumption Analysis of Two Houses in St. John's, Newfoundland. Procedia Engineering, 2015, 105, 607-612.	1.2	3
87	Modelling and simulation of a solar water heating system with thermal storage. , 2016, , .		3
88	Synchronous switching for parallel-connected DC-DC boost converters. , 2017, , .		3
89	Modeling, Analysis, and State Feedback Control Design of a Multizone HVAC System. Journal of Energy, 2018, 2018, 1-11.	1.4	3
90	Open Source Data Logging and Data Visualization for an Isolated PV System. Electronics (Switzerland), 2019, 8, 424.	1.8	3

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91	Control Algorithm for Equal Current Sharing between Parallel-Connected Boost Converters in a DC Microgrid. Journal of Electrical and Computer Engineering, 2020, 2020, 1-11.	0.6	3
92	Surfactant-assisted synthesis of NiCo2O4/NiO nanocomposite by facile atmospheric pressure microplasma electrochemical process with photocatalytic applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 17865-17875.	1.1	3
93	Data Logging and Control of a Remote Inverter Using LoRa and Power Line Communication. Energy and Power Engineering, 2018, 10, 351-365.	0.5	3
94	Dynamic modeling and simulation of the MUN Explorer autonomous underwater vehicle with a fuel cell system. AIMS Electronics and Electrical Engineering, 2020, 4, 114-131.	0.8	3
95	An Optimum Sizing for a Hybrid Storage System in Solar Water Pumping Using ICA. , 2022, , .		3
96	Sizing of a hybrid power system for a house in Libya. , 2016, , .		2
97	Modified Droop Method Based on Master Current Control for Parallel-Connected DC-DC Boost Converters. Journal of Electrical and Computer Engineering, 2018, 2018, 1-14.	0.6	2
98	Energy Consumption Analysis of a Large Building at Memorial University. Journal of Energy, 2019, 2019, 1-21.	1.4	2
99	Design of an Ultra-Low Powered Data-Logger for Stand-Alone PV Energy Systems. European Journal of Electrical Engineering and Computer Science, 2020, 4, .	0.5	2
100	Design and Optimization of Solar PV system for a Fish Farm in Pakistan. , 2022, , .		2
101	System Design and PV Sizing of a Micro Solar Electric Vehicle for Pakistan. , 2022, , .		2
102	Detailed Bond Graph Modeling of PV-Battery System. , 2022, , .		2
103	A new approach to minimize the cogging torque of axial flux pmg for under water applications. , 2009, , .		1
104	Grid Impact of a 5.25 MW Wind Farm near St.Anthony, Newfoundland. Wind Engineering, 2009, 33, 649-659.	1.1	1
105	Experimental Comparison of Performances of Grid Connected Small Wind Energy Conversion Systems. Wind Engineering, 2010, 34, 651-672.	1.1	1
106	A Junior Level Course in Electrical Engineering Design. International Journal of Electrical Engineering and Education, 2012, 49, 1-15.	0.4	1
107	Data logging and energy consumption analysis of two houses in St. John's, Newfoundland. , 2014, , .		1
108	Evaluation of maximum power point tracking in hydrokinetic energy conversion systems. Journal of Engineering, 2015, 2015, 331-338.	0.6	1

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109	Low-cost and open source SCADA options for remote control and monitoring of inverters. , 2017, , .		1
110	Feasibility of using a large deep water PV water pumping system: A case study for an average farm in Riyadh, Saudi Arabia. , 2017, , .		1
111	Optimal Sizing and Analysis of a Small Hybrid Power System for Umuokpo Amumara in Eastern Nigeria. International Journal of Photoenergy, 2019, 2019, 1-8.	1.4	1
112	Wind Energy Based Packet Energy System. International Journal of Energy Science, 2014, 4, 123.	0.6	1
113	A Comparison of Solar Photovoltaic and Solar Thermal Collector for Residential Water Heating and Space Heating System. European Journal of Engineering Research and Science, 2019, 4, 41-47.	0.3	1
114	A Remote Thermostat Control and Temperature Monitoring System of a Single-Family House using openHAB and MQTT. European Journal of Electrical Engineering and Computer Science, 2020, 4, .	0.5	1
115	Techno-economic Comparison of Emerging Solar PV modules for Utility Scale PV installation. , 2021, , .		1
116	Design and Analysis of an Isolated DC-Microgrid for a Remote Community in Pakistan. , 2021, , .		1
117	Dynamic Modeling of a Micro Solar Electric Vehicle for Pakistan using Simulink. , 2022, , .		1
118	Dynamic simulation of a microgrid system for a university community in Nigeria. , 2022, , .		1
119	Sizing a Hybrid Power System for Battle Harbour Island in Labrador. Wind Engineering, 2007, 31, 233-245.	1.1	0
120	16-QAM modulation type is used and root-raised cosine pulse shaping filters are implemented. , 2015, , .		0
121	Electrical Engineering Design Course at Memorial University of Newfoundland. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	0
122	Sizing of A Large Isolated Solar Energy System for Bani Walid, Libya. Journal of Clean Energy Technologies, 2018, , 385-393.	0.1	0
123	Supervisor Fuzzy Logic Controller for HVAC System of S.J Carew Building at Memorial University. European Journal of Electrical Engineering and Computer Science, 2019, 3, .	0.5	0
124	Yearly Heat Loss Analysis of a Heat Recovery Ventilator Unit for a Single-Family House in St. Johnâ€™s, NL, Canada. European Journal of Electrical Engineering and Computer Science, 2019, 3, .	0.5	0
125	Short-term Power Load Forecast of an Electrically Heated House in St. Johnâ€™s, Newfoundland, Canada. European Journal of Electrical Engineering and Computer Science, 2020, 4, .	0.5	0
126	Optimal Sizing of a Hybrid Power System for Driving a Passenger Boat in Bangladesh. , 2020, , .		0

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127	Design and Simulate a 500 MW Grid-Connected PV Farm for Labrador. , 2022, , .		0
128	Design and Analysis of a Solar Powered Water Filtration System for a Community in Black Tickle-Domino. , 2022, , .		0