M Tariq Iqbal

List of Publications by Year
in descending order

128 papers	3,505 citations	236612 25 h-index	155451 55 g-index
129 all docs	129 docs citations	129 times ranked	2974 citing authors

#	Article	IF	Citations
1	A Comparative Study of Solar Water Pump Storage Systems. , 2022, , .		6
2	Design and Optimization of Solar PV system for a Fish Farm in Pakistan. , 2022, , .		2
3	System Design and PV Sizing of a Micro Solar Electric Vehicle for Pakistan. , 2022, , .		2
4	Design and Simulate a 500 MW Grid-Connected PV Farm for Labrador. , 2022, , .		0
5	Dynamic Modeling of a Micro Solar Electric Vehicle for Pakistan using Simulink. , 2022, , .		1
6	Dynamic simulation of a microgrid system for a university community in Nigeria. , 2022, , .		1
7	An Optimum Sizing for a Hybrid Storage System in Solar Water Pumping Using ICA. , 2022, , .		3
8	Detailed Bond Graph Modeling of PV-Battery System. , 2022, , .		2
9	Design and Analysis of a Solar Powered Water Filtration System for a Community in Black Tickle-Domino. , 2022, , .		0
10	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
11	Direct Model Reference Adaptive Control of a Boost Converter for Voltage Regulation in Microgrids. Energies, 2022, 15, 5080.	1.6	8
12	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
13	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
14	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
15	Microplasma-assisted electrochemical synthesis of ZnO nanostructures for photocatalytic and antibacterial applications. Physica Scripta, 2021, 96, 125801.	1.2	5
16	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
17	Techno-economic Comparison of Emerging Solar PV modules for Utility Scale PV installation. , 2021, , .		1
18	Design and Analysis of an Isolated DC-Microgrid for a Remote Community in Pakistan. , 2021, , .		1

#	Article	IF	Citations
19	Low-Cost Open Source IoT-Based SCADA System for a BTS Site Using ESP32 and Arduino IoT Cloud. , 2021, , .		13
20	Development of an Economical SCADA System for Solar Water Pumping in Iran. , 2020, , .		6
21	Low-Cost ESP32, Raspberry Pi, Node-Red, and MQTT Protocol Based SCADA System. , 2020, , .		15
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Design and Analysis of Solar Water Pumping with Storage for Irrigation in Iran. , 2020, , .		4
31	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
32	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
33	LoRa-based communication system for data transfer in microgrids. AIMS Electronics and Electrical Engineering, 2020, 4, 303-325.	0.8	7
34	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
35	Optimised Design and Analysis of Solar Water Pumping Systems for Pakistani Conditions. Energy and Power Engineering, 2020, 12, 521-542.	0.5	7
36	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

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37	Development of a Low-cost LoRa based SCADA system for Monitoring and Supervisory Control of Small Renewable Energy Generation Systems. , 2020, , .		7
38	Open Source IoT-Based SCADA System for Remote Oil Facilities Using Node-RED and Arduino Microcontrollers. , 2020, , .		6
39	Optimal Sizing of a Hybrid Power System for Driving a Passenger Boat in Bangladesh. , 2020, , .		0
40	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
41	Low-Cost, Open Source IoT-Based SCADA System Design Using Thinger.IO and ESP32 Thing. Electronics (Switzerland), 2019, 8, 822.	1.8	74
42	Convolutional Neural Network for Copy-Move Forgery Detection. Symmetry, 2019, 11, 1280.	1.1	28
43	Development of an IoT Based Open Source SCADA System for PV System Monitoring. , 2019, , .		39
44	Copy-Move Forgery Detection and Localization Using a Generative Adversarial Network and Convolutional Neural-Network. Information (Switzerland), 2019, 10, 286.	1.7	27
45	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
46	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
47	Energy Consumption Analysis of a Large Building at Memorial University. Journal of Energy, 2019, 2019, 1-21.	1.4	2
48	Open Source Data Logging and Data Visualization for an Isolated PV System. Electronics (Switzerland), 2019, 8, 424.	1.8	3
49	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
50	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
51	A review of integrating ice detection and mitigation for wind turbine blades. Renewable and Sustainable Energy Reviews, 2019, 103, 269-281.	8.2	86
52	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
53	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
54	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

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55	Facile synthesis of ZnO nanosheets: Structural, antibacterial and photocatalytic studies. Materials Letters, 2018, 224, 59-63.	1.3	42
56	Biofilm reduction, cell proliferation, anthelmintic and cytotoxicity effect of green synthesised silver nanoparticle usingArtemisia vulgarisextract. IET Nanobiotechnology, 2018, 12, 71-77.	1.9	10
57	Low-cost and Secure Communication System for Remote Micro-grids using AES Cryptography on ESP32 with LoRa Module. , 2018, , .		13
58	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
59	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
60	Solar Water Pumping System Control Using a Low Cost ESP32 Microcontroller. , 2018, , .		28
61	Dynamic Modelling of a Solar Water Pumping System with Energy Storage. Journal of Solar Energy, 2018, 2018, 1-12.	0.8	36
62	Modeling, Analysis, and State Feedback Control Design of a Multizone HVAC System. Journal of Energy, 2018, 2018, 1-11.	1.4	3
63	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
64	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
65	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
66	Joining of Individual Silicon Carbide Nanowires Via Proton Beam Irradiation. Current Nanoscience, 2018, 14, 354-359.	0.7	8
67	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
68	Sizing of A Large Isolated Solar Energy System for Bani Walid, Libya. Journal of Clean Energy Technologies, 2018, , 385-393.	0.1	0
69	Low-cost and open source SCADA options for remote control and monitoring of inverters. , 2017, , .		1
70	Modelling of a large-scale solar powered water pumping system for irrigation in Saudi Arabia. , 2017, , .		6
71	A comparison of low cost wireless communication methods for remote control of grid-tied converters. , 2017, , .		11
72	Synchronous switching for parallel-connected DC-DC boost converters. , 2017, , .		3

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73	Feasibility of using a large deep water PV water pumping system: A case study for an average farm in Riyadh, Saudi Arabia. , 2017, , .		1
74	Design and implementation of a low cost web server using ESP32 for real-time photovoltaic system monitoring. , 2017, , .		43
75	Dynamic Modeling, Control, and Analysis of a Solar Water Pumping System for Libya. Journal of Renewable Energy, 2017, 2017, 1-13.	2.1	19
76	Comparing bisection numerical algorithm with fractional short circuit current and open circuit voltage methods for MPPT photovoltaic systems. , 2016, , .		36
77	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
78	Optimal sizing of a stand-alone hybrid energy system for water pumping in Sirte, Libya. , 2016, , .		7
79	Modelling and simulation of a solar water heating system with thermal storage. , 2016, , .		3
80	Sizing of a hybrid power system for a house in Libya. , 2016, , .		2
81	Evaluation of maximum power point tracking in hydrokinetic energy conversion systems. Journal of Engineering, 2015, 2015, 331-338.	0.6	1
82	Thermal Simulation and Energy Consumption Analysis of Two Houses in St. John's, Newfoundland. Procedia Engineering, 2015, 105, 607-612.	1.2	3
83	16-QAM modulation type is used and root-raised cosine pulse shaping filters are implemented. , 2015, , .		0
84	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
85	Compressed Air Energy Storage System Control and Performance Assessment Using Energy Harvested Index. Electronics (Switzerland), 2014, 3, 1-21.	1.8	14
86	Data logging and energy consumption analysis of two houses in St. John's, Newfoundland. , 2014, , .		1
87	Grid connected energy storage system to profit from net-metering and variable rate electricity. , 2014, , .		5
88	Modeling and Control of a Grid Connected PAFC System. International Journal of Energy Science, 2014, 4, 69.	0.6	4
89	Wind Energy Based Packet Energy System. International Journal of Energy Science, 2014, 4, 123.	0.6	1
90	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

#	ARTICLE	IF	CITATIONS
91	Optimization and a comparison between renewable and non-renewable energy systems for a telecommunication site. , 2012, , .		7
92	A Junior Level Course in Electrical Engineering Design. International Journal of Electrical Engineering and Education, 2012, 49, 1-15.	0.4	1
93	Optimization and modeling of a stand-alone wind/PV hybrid energy system. , 2012, , .		8
94	Riskâ€based fault diagnosis and safety management for process systems. Process Safety Progress, 2011, 30, 6-17.	0.4	17
95	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
96	Power Electronics Reliability Comparison of Grid Connected Small Wind Energy Conversion Systems. Wind Engineering, 2011, 35, 93-110.	1.1	8
97	Power tracking control challenges in Hydrokinetic energy conversion systems. , 2011, , .		3
98	Experimental Comparison of Performances of Grid Connected Small Wind Energy Conversion Systems. Wind Engineering, 2010, 34, 651-672.	1.1	1
99	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
100	An Embedded Frequency Response Analyzer for Fuel Cell Monitoring and Characterization. IEEE Transactions on Industrial Electronics, 2010, 57, 1925-1934.	5.2	42
101	A new approach to minimize the cogging torque of axial flux pmg for under water applications. , 2009, , .		1
102	Analysis of a small wind-hydrogen stand-alone hybrid energy system. Applied Energy, 2009, 86, 2429-2442.	5.1	137
103	Reliability analysis of grid connected small wind turbine power electronics. Applied Energy, 2009, 86, 1617-1623.	5.1	73
104	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
105	A permanent magnet generator with PCB stator for low speed marine current applications. , 2009, , .		12
106	Performance Comparison of Grid Connected Small Wind Energy Conversion Systems. Wind Engineering, 2009, 33, 1-17.	1.1	13
107	Grid Impact of a 5.25 MW Wind Farm near St.Anthony, Newfoundland. Wind Engineering, 2009, 33, 649-659.	1.1	1
108	Energy capture by a small wind-energy conversion system. Applied Energy, 2008, 85, 41-51.	5.1	53

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109	Controller for a small induction-generator based wind-turbine. Applied Energy, 2008, 85, 218-227.	5.1	17
110	Real-time fault diagnosis using knowledge-based expert system. Chemical Engineering Research and Design, 2008, 86, 55-71.	2.7	96
111	River current energy conversion systems: Progress, prospects and challenges. Renewable and Sustainable Energy Reviews, 2008, 12, 2177-2193.	8.2	192
112	Voltage Fluctuations in a Remote Wind-Diesel Hybrid Power System. , 2008, , .		7
113	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
114	Sizing a Hybrid Power System for Battle Harbour Island in Labrador. Wind Engineering, 2007, 31, 233-245.	1.1	0
115	Selection of a curved switching surface for buck converters. IEEE Transactions on Power Electronics, 2006, 21, 1148-1153.	5.4	104
116	Pre-feasibility study of wind power generation in holyrood, newfoundland. Renewable Energy, 2006, 31, 489-502.	4.3	25
117	Life Cycle Analysis of windâ€“fuel cell integrated system. Renewable Energy, 2005, 30, 157-177.	4.3	101
118	Wind energy resource map of Labrador. Renewable Energy, 2005, 30, 989-1004.	4.3	20
119	Dynamic Modelling and Simulation of a Fuel Cell Generator. Fuel Cells, 2005, 5, 97-104.	1.5	37
120	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
121	Pre-feasibility study of stand-alone hybrid energy systems for applications in Newfoundland. Renewable Energy, 2005, 30, 835-854.	4.3	428
122	Wind energy resource map of Newfoundland. Renewable Energy, 2004, 29, 1211-1221.	4.3	29
123	A feasibility study of a zero energy home in Newfoundland. Renewable Energy, 2004, 29, 277-289.	4.3	95
124	A wind map of Bangladesh. Renewable Energy, 2004, 29, 643-660.	4.3	50
125	Modeling and control of a wind fuel cell hybrid energy system. Renewable Energy, 2003, 28, 223-237.	4.3	120
126	Simulation of a small wind fuel cell hybrid energy system. Renewable Energy, 2003, 28, 511-522.	4.3	74

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127	Pre-Feasibility Study of a Wind-Diesel System for St. Brendan's, Newfoundland. Wind Engineering, 2003, 27, 39-51.	1.1	5
128	Electrical Engineering Design Course at Memorial University of Newfoundland. Proceedings of the Canadian Engineering Education Association (CEEA), 0, , .	0.2	0