

# Ghulam Abbas

## List of Publications by Year in descending order

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86  
papers

883  
citations

566801

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88  
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88  
docs citations

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times ranked

765  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Transformerless AC-AC Converter with Improved Power Quality Employed to Step-Down Power Frequency at Output. <i>Energies</i> , 2022, 15, 667.	1.6	5
2	Smart Assistive System for Visually Impaired People Obstruction Avoidance Through Object Detection and Classification. <i>IEEE Access</i> , 2022, 10, 13428-13441.	2.6	46
3	Sliding Mode Observer-Based Fault Detection in Continuous Time Linear Switched Systems. <i>Energies</i> , 2022, 15, 1090.	1.6	3
4	Image processing based fault classification in power systems with classical and intelligent techniques. <i>Journal of Intelligent and Fuzzy Systems</i> , 2022, 43, 1921-1932.	0.8	2
5	Investigation of the Power Quality Concerns of Input Current in Single-Phase Frequency Step-Down Converter. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3663.	1.3	4
6	Perception Action Aware-Based Autonomous Drone Race in a Photorealistic Environment. <i>IEEE Access</i> , 2022, 10, 42566-42576.	2.6	1
7	Teleoperation of Multi-Degrees-of-Freedom Manipulator through Composite State Convergence Scheme. <i>IFAC-PapersOnLine</i> , 2022, 55, 126-130.	0.5	0
8	MTDC Grids: A Metaheuristic Solution for Nonlinear Control. <i>Energies</i> , 2022, 15, 4263.	1.6	8
9	A Transformer-Less Multiconverter Having Output Voltage and Frequency Regulation Characteristics, Employed with Simple Switching Algorithms. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3075.	1.3	4
10	Residential and commercial UPS User's contribution to load shedding and possible solutions using renewable energy. <i>Energy Policy</i> , 2021, 151, 112194.	4.2	3
11	HVdc Circuit Breakers: Prospects and Challenges. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5047.	1.3	15
12	A Comprehensive Review on Integration Challenges, Optimization Techniques and Control Strategies of Hybrid AC/DC Microgrid. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6242.	1.3	47
13	Characteristics of Battery Management Systems of Electric Vehicles with Consideration of the Active and Passive Cell Balancing Process. <i>World Electric Vehicle Journal</i> , 2021, 12, 120.	1.6	34
14	A Simple Two-Stage AC-AC Circuit Topology Employed as High-Frequency Controller for Domestic Induction Heating System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8325.	1.3	6
15	A Systematic Review of Key Challenges in Hybrid HVAC&HDC Grids. <i>Energies</i> , 2021, 14, 5451.	1.6	9
16	An Improved Bipolar Voltage Boost AC Voltage Controller With Reduced Switching Transistors. <i>IEEE Access</i> , 2021, 9, 90402-90417.	2.6	6
17	Power Quality Analysis of the Output Voltage of AC Voltage and Frequency Controllers Realized with Various Voltage Control Techniques. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 538.	1.3	12
18	A Modified Hybrid Particle Swarm Optimization With Bat Algorithm Parameter Inspired Acceleration Coefficients for Solving Eco-Friendly and Economic Dispatch Problems. <i>IEEE Access</i> , 2021, 9, 82169-82187.	2.6	27

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19	Multivariable Unconstrained Pattern Search Method for Optimizing Digital PID Controllers Applied to Isolated Forward Converter. <i>Energies</i> , 2021, 14, 77.	1.6	11
20	A Bipolar Voltage Gain Boost AC-AC Converter Based on Four Switching Transistors. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10254.	1.3	1
21	A New Dual Polarity Direct AC-AC Voltage Regulator Ensuring Voltage Step-Up and Step-Down Capabilities. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11944.	1.3	2
22	Technical Assessment of Hybrid HVDC Circuit Breaker Components under M-HVDC Faults. <i>Energies</i> , 2021, 14, 8148.	1.6	11
23	Comparative Analysis of Ground-Mounted vs. Rooftop Photovoltaic Systems Optimized for Interrow Distance between Parallel Arrays. <i>Energies</i> , 2020, 13, 3639.	1.6	21
24	A Hybrid Metaheuristic Approach for the Solution of Renewables-Incorporated Economic Dispatch Problems. <i>IEEE Access</i> , 2020, 8, 127608-127621.	2.6	22
25	Multi-Objective Optimal Power Flow With Integration of Renewable Energy Sources Using Fuzzy Membership Function. <i>IEEE Access</i> , 2020, 8, 143185-143200.	2.6	17
26	Solving Renewables-Integrated Economic Load Dispatch Problem by Variant of Metaheuristic Bat-Inspired Algorithm. <i>Energies</i> , 2020, 13, 6225.	1.6	26
27	A New Single-Phase AC Voltage Converter With Voltage Buck Characteristics for Grid Voltage Compensation. <i>IEEE Access</i> , 2020, 8, 48886-48903.	2.6	14
28	A New Single-Phase Direct Frequency Controller Having Reduced Switching Count without Zero-Crossing Detector for Induction Heating System. <i>Electronics (Switzerland)</i> , 2020, 9, 430.	1.8	9
29	An Impedance Network-Based Three Level Quasi Neutral Point Clamped Inverter with High Voltage Gain. <i>Energies</i> , 2020, 13, 1261.	1.6	8
30	A Novel Load Scheduling Mechanism Using Artificial Neural Network Based Customer Profiles in Smart Grid. <i>Energies</i> , 2020, 13, 1062.	1.6	14
31	A Multi-Terminal HVdc Grid Topology Proposal for Offshore Wind Farms. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1833.	1.3	6
32	Online identification of nonlinear systems using neo-fuzzy supported brain emotional learning network. <i>Journal of Intelligent and Fuzzy Systems</i> , 2020, 38, 6045-6051.	0.8	0
33	A Technique for Better Energy Management of Single-Stage Topology of Stand-Alone Photovoltaic System. <i>International Journal of Integrated Engineering</i> , 2020, 12, .	0.2	0
34	Optimal Power Flow and Unified Control Strategy for Multi-Terminal HVDC Systems. <i>IEEE Access</i> , 2019, 7, 92642-92650.	2.6	16
35	An enhanced state convergence architecture incorporating disturbance observer for bilateral teleoperation systems. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141988005.	1.3	0
36	A composite state convergence scheme for bilateral teleoperation systems. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2019, 6, 1166-1178.	8.5	7

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37	Design of Three Phase Solid State Transformer Deployed within Multi-Stage Power Switching Converters. Applied Sciences (Switzerland), 2019, 9, 3545.	1.3	4
38	A Single-Phase Buck and Boost AC-to-AC Converter with Bipolar Voltage Gain: Analysis, Design, and Implementation. Energies, 2019, 12, 1376.	1.6	14
39	Derivative-Free Direct Search Optimization Method for Enhancing Performance of Analytical Design Approach-Based Digital Controller for Switching Regulator. Energies, 2019, 12, 2183.	1.6	5
40	A Single-Phase Buck-Boost Matrix Converter with Low Switching Stresses. Mathematical Problems in Engineering, 2019, 2019, 1-19.	0.6	13
41	MTâ€™HVdc Systems Fault Classification and Location Methods Based on Traveling and Non-Traveling Wavesâ€™A Comprehensive Review. Applied Sciences (Switzerland), 2019, 9, 4760.	1.3	8
42	Recent Approaches of Forecasting and Optimal Economic Dispatch to Overcome Intermittency of Wind and Photovoltaic (PV) Systems: A Review. Energies, 2019, 12, 4392.	1.6	39
43	Artificial Intelligence-Based Controller for DC-DC Flyback Converter. Applied Sciences (Switzerland), 2019, 9, 5108.	1.3	5
44	A Time-Delayed Multi-Master-Single-Slave Non-Linear Tele-Robotic System Through State Convergence. IEEE Access, 2018, 6, 5447-5459.	2.6	3
45	A Protection Scheme for Multi-Terminal VSC-HVDC Transmission Systems. IEEE Access, 2018, 6, 3159-3166.	2.6	48
46	Optimized Digital Controllers for Switching-Mode DC-DC Step-Down Converter. Electronics (Switzerland), 2018, 7, 412.	1.8	11
47	Multi-Objective Optimization of VSC Stations in Multi-Terminal VSC-HVdc Grids, Based on PSO. IEEE Access, 2018, 6, 62995-63004.	2.6	27
48	An efficient single-phase ac-to-ac buck and boost matrix converter. , 2017, , .		1
49	Power quality analysis of a three phase ac-to-dc controlled converter. , 2017, , .		2
50	Modeling and simulation of optical current transformer using operational amplifiers. , 2017, , .		3
51	Scope of Video Magnification in Human Pulse Rate Estimation. , 2017, , .		5
52	Solution of an Economic Dispatch Problem Through Particle Swarm Optimization: A Detailed Survey â€™ Part II. IEEE Access, 2017, 5, 24426-24445.	2.6	56
53	Solution of an Economic Dispatch Problem Through Particle Swarm Optimization: A Detailed Survey - Part I. IEEE Access, 2017, 5, 15105-15141.	2.6	94
54	Problems in constructing a discrete-time controller using frequency response plots in w-plane. , 2017, , .		1

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55	Elimination of limit cycle in unexcited Van der Pol system using fuzzy supported state space controllers. , 2016, , .		1
56	Design and construction of mobility assistive hybrid automobile for impaired persons. , 2016, , .		0
57	Calculation of CPU performance, power and cost using Hadoop. , 2016, , .		1
58	Fuzzy bilateral control of time delayed nonlinear tele-robotic system in unknown environments through state convergence. , 2016, , .		1
59	State convergence based bilateral control of nonlinear teleoperation system represented by TS fuzzy models. , 2016, , .		2
60	Set-point tracking of a dc-dc boost converter through optimized PID controllers. , 2016, , .		13
61	Fuzzy Model Based Bilateral Control Design of Nonlinear Tele-Operation System Using Method of State Convergence. IEEE Access, 2016, 4, 4119-4135.	2.6	31
62	Compensation of the nonlinearities present in the digital control loop. , 2016, , .		1
63	Optimization of discrete-time controller applied to DC-DC step-down converter. , 2015, , .		2
64	Design and implementation of a robotic car to recognize traffic signs. , 2015, , .		0
65	An interval type-2 fuzzy regulator for magnetic levitation system. , 2015, , .		1
66	Controller design for low-input voltage switching converters having non-minimum phase characteristics. , 2015, , .		4
67	Comparative Analysis of Analog Controllers for DC-DC Buck Converter. Journal of Automation and Control Engineering, 2015, 3, 447-451.	0.3	2
68	An improved PID controller for switching converters. , 2014, , .		1
69	Application of a robust fuzzy logic controller with smaller rule base to a DC-DC buck converter. , 2014, , .		1
70	Design and analysis of SMC for second order DC-DC flyback converter. , 2014, , .		6
71	Robust Takagi-Sugeno Fuzzy Speed Regulator for DC Series Motors. , 2014, , .		1
72	Graphical user interface based controller design for switching converters. , 2014, , .		2

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73	A neural network controller for Cartesian Plotter. , 2013, , .		1
74	Application of machine vision for performance enhancement of footing machine used in leather industry of Pakistan. , 2013, , .		1
75	Constrained Model-Based Predictive Controller for a High-Frequency Low-Power DC-DC Buck Converter. International Journal on Electrical Engineering and Informatics, 2013, 5, 316-339.	0.3	4
76	Corridor navigation with fuzzy logic control for sonar based mobile robots. , 2012, , .		2
77	A two loop fuzzy controller for goal directed navigation of mobile robot. , 2012, , .		1
78	Design and FPGA implementation of 1-degree-of-freedom discrete PID controller for power switching converter. , 2012, , .		6
79	Comparative analysis of fuzzy logic controllers for corridor following behaviour of mobile robot. , 2011, , .		1
80	Fuzzy logic based robust pole-placement controller for DC-DC buck converter. , 2011, , .		4
81	Application of neural network based model predictive controller to power switching converters. , 2011, , .		4
82	Comparative analysis of zero order Sugeno and Mamdani fuzzy logic controllers for obstacle avoidance behavior in mobile robot navigation. , 2011, , .		9
83	Design and analysis of fuzzy logic based robust PID controller for PWM-based switching converter. , 2011, , .		8
84	Design, low cost implementation and comparison of MIMO Mamdani Fuzzy Logic Controllers for wall tracking behavior of mobile robot. , 2011, , .		2
85	Design and implementation of a PWM-based digital controller for a high-frequency dc-dc buck converter working in CCM using classical control techniques. , 2010, , .		2
86	Optimal state-space controller for power switching converter. , 2010, , .		12