Irfan Sami

List of Publications by Year
in descending order

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44 papers	474 citations	840776 11 h-index	794594 19 g-index
44 all docs	44 docs citations	44 times ranked	389 citing authors

#	Article	IF	Citations
1	A Super Twisting Fractional Order Terminal Sliding Mode Control for DFIG-Based Wind Energy Conversion System. Energies, 2020, 13, 2158.	3.1	50
2	A Bidirectional Interactive Electric Vehicles Operation Modes: Vehicle-to-Grid (V2G) and Grid-to-Vehicle (G2V) Variations Within Smart Grid. , 2019, , .		38
3	Genetic algorithmâ€based nonâ€linear autoâ€regressive with exogenous inputs neural network shortâ€term and mediumâ€term uncertainty modelling and prediction for electrical load and wind speed. Journal of Engineering, 2018, 2018, 721-729.	1.1	36
4	Integral Super Twisting Sliding Mode Based Sensorless Predictive Torque Control of Induction Motor. IEEE Access, 2020, 8, 186740-186755.	4.2	33
5	Artificial Intelligence Integrated Fractional Order Control of Doubly Fed Induction Generator-Based Wind Energy System. IEEE Access, 2021, 9, 5734-5748.	4.2	33
6	Sensorless fractional order composite sliding mode control design for wind generation system. ISA Transactions, 2021, 111, 275-289.	5.7	29
7	Control Methods for Standalone and Grid Connected Micro-Hydro Power Plants With Synthetic Inertia Frequency Support: A Comprehensive Review. IEEE Access, 2020, 8, 176313-176329.	4.2	23
8	Backstepping Based Super-Twisting Sliding Mode MPPT Control with Differential Flatness Oriented Observer Design for Photovoltaic System. Electronics (Switzerland), 2020, 9, 1543.	3.1	21
9	Consensus-Based Delay-Tolerant Distributed Secondary Control Strategy for Droop Controlled AC Microgrids. IEEE Access, 2021, 9, 6033-6049.	4.2	19
10	Improving voltage profile and reducing power losses based on reconfiguration and optimal placement of <scp>UPQC</scp> in the network by considering system reliability indices. International Transactions on Electrical Energy Systems, 2021, 31, e13120.	1.9	15
11	Industrial Grade Adaptive Control Scheme for a Micro-Grid Integrated Dual Active Bridge Driven Battery Storage System. IEEE Access, 2020, 8, 210435-210451.	4.2	14
12	Analytical Sub-Domain Model for Magnetic Field Computation in Segmented Permanent Magnet Switched Flux Consequent Pole Machine. IEEE Access, 2021, 9, 3774-3783.	4.2	14
13	Sliding Mode-Based Model Predictive Torque Control of Induction Machine. , 2019, , .		13
14	Voltage/Frequency Regulation With Optimal Load Dispatch in Microgrids Using SMC Based Distributed Cooperative Control. IEEE Access, 2022, 10, 64873-64889.	4.2	12
15	Finite-Time Fast Dynamic Terminal Sliding Mode Maximum Power Point Tracking Control Paradigm for Permanent Magnet Synchronous Generator-Based Wind Energy Conversion System. Applied Sciences (Switzerland), 2020, 10, 6361.	2.5	11
16	A computationally efficient robust voltage control for a single phase dual active bridge. Energy Reports, 2020, 6, 3346-3356.	5.1	11
17	Statistical Energy Information and Analysis of Pakistan Economic Corridor Based on Strengths, Availabilities, and Future Roadmap. IEEE Access, 2020, 8, 169701-169739.	4.2	10
18	Design and Performance Investigation of 3-Slot/2-Pole High Speed Permanent Magnet Machine. IEEE Access, 2021, 9, 41603-41614.	4.2	10

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19	Modified Nearest Level Modulation for Full-Bridge Based HVDC MMC in Real-Time Hardware-in-Loop Setup. IEEE Access, 2021, 9, 114998-115005.	4.2	10
20	Assessment of hybrid off-grid wind photovoltaic system: A case study of university campus. , 2017, , .		9
21	A Distributed Hierarchical Control Framework for Economic Dispatch and Frequency Regulation of Autonomous AC Microgrids. Energies, 2021, 14, 8408.	3.1	9
22	Processor in the Loop Verification of Fault Tolerant Control for a Three Phase Inverter in Grid Connected PV System. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2023, 45, 3760-3776.	2.3	8
23	Operation and Challenges of Multi-Infeed LCCâ€“HVDC System: Commutation Failure, AC/DC Power Flow, and Voltage Stability. Applied Sciences (Switzerland), 2021, 11, 8637.	2.5	7
24	A computationally efficient adaptive robust control scheme for a quad-rotor transporting cable-suspended payloads. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 379-395.	1.3	6
25	Economic Loss Minimization of a Distribution Feeder and Selection of Optimum Conductor for Voltage Profile Improvement. , 2018, , .		4
26	Control and identification of dynamic plants using adaptive neuro-fuzzy type-2 strategy. , 2017, , .		3
27	Linear and Nonlinear Control Schemes for Smart Grid. , 2019, , .		3
28	Cloud Computing (CC) Centers-A Fast Processing Engine in Smart Grid. , 2019, , .		3
29	Design and Analysis of Dual Mover Multi-Tooth Permanent Magnet Flux Switching Machine for Ropeless Elevator Applications. Actuators, 2021, 10, 81.	2.3	3
30	A Comparative study of Linear and Nonlinear Control Schemes for AC Induction Machines. , 2018, , .		2
31	Flood Rescue Operations Using Artificially Intelligent UAVs. , 2019, , .		2
32	High-Harmonic Injection-Based Brushless Wound Field Synchronous Machine Topology. Mathematics, 2021, 9, 1721.	2.2	2
33	Simultaneous Competition Modeling of Generations and Consumers in the New Market Structure based on the Supply Function Equilibrium Model Systems. , 2021, , .		2
34	Design of a High Torque Density Interior Permanent Magnet Synchronous Machine with improved Efficiency using Amorphous Magnetic Material. , 2021, , .		2
35	Fractional Order Sliding Mode Control based Model Predictive Current Control of Multi-phase Induction Motor Drives. , 2020, , .		2
36	Need for Mutual Services Interaction Between Smart Grid and Cloud Data Centers. , 2018, , .		1

#	Article	IF	Citations
37	Sliding Mode based Speed Observer Design for Speed control of five Phase Induction Motor. , 2019, , .		1
38	Supertwisting Sliding Mode Control of Multi-converter MVDC power systems under constant power loads. , 2021, , .		1
39	Model Predictive Torque Control of Three Phase Induction Motor with a Robust Outer Loop Controller. , 2021, , .		1
40	Rotor pole analysis of five-phase outer rotor field excited switched flux motor for in-wheel application. Electrical Engineering, 2022, 104, 3983-3992.	2.0	1
41	Failure Influence Index for Power Transmission Systems. , 2018, , .		0
42	Fault Tolerance of Data Center under Multi-Correlated Failures. , 2018, , .		0
43	Suppression of Permanent Magnet Eddy Current Loss in High-Speed Machines. , 2021, , .		0
44	Performance Investigation of Novel 8-Slot/10-Pole Single Phase Outer Rotor Flux Switching Machine. , 2021, , .		0