

# Arsalan Habib Khawaja

## List of Publications by Year in descending order

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141  
papers

1,706  
citations

331538

21  
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345118

36  
g-index

141  
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141  
docs citations

141  
times ranked

1132  
citing authors

#	ARTICLE	IF	CITATIONS
1	An $H_{\infty}$ Load Frequency Control Scheme for Multi-Area Power System Under Cyber-Attacks and Time-Varying Delays. IEEE Transactions on Power Systems, 2023, 38, 1336-1349.	4.6	8
2	Deep Reinforcement Learning Enabled Physical-Model-Free Two-Timescale Voltage Control Method for Active Distribution Systems. IEEE Transactions on Smart Grid, 2022, 13, 149-165.	6.2	36
3	Comparison of machine learning and deep learning algorithms for hourly global/diffuse solar radiation predictions. International Journal of Energy Research, 2022, 46, 10052-10073.	2.2	41
4	Flexibility enhancement measures under the COVID-19 pandemic – A preliminary comparative analysis in Denmark, the Netherlands, and Sichuan of China. Energy, 2022, 239, 122166.	4.5	7
5	A Dynamic Bayesian Network Control Strategy for Modeling Grid-Connected Inverter Stability. IEEE Transactions on Reliability, 2022, 71, 75-86.	3.5	5
6	Spatio-Temporal Correlation-Based False Data Injection Attack Detection Using Deep Convolutional Neural Network. IEEE Transactions on Smart Grid, 2022, 13, 750-761.	6.2	21
7	A Novel Uncertainty Quantification Framework for PF and OPF Considering Nonlinear Correlated Power Injections With Limited Information. IEEE Transactions on Power Systems, 2022, 37, 3704-3715.	4.6	1
8	A Multiagent Deep Reinforcement Learning Based Approach for the Optimization of Transformer Life Using Coordinated Electric Vehicles. IEEE Transactions on Industrial Informatics, 2022, 18, 7639-7652.	7.2	15
9	Subsynchronous Oscillation Analysis Using Multisynchrosqueezing Transform and Dissipating Energy Flow Method. IEEE Transactions on Industry Applications, 2022, 58, 3134-3141.	3.3	10
10	EV Charging Strategy Considering Transformer Lifetime via Evolutionary Curriculum Learning-Based Multiagent Deep Reinforcement Learning. IEEE Transactions on Smart Grid, 2022, 13, 2774-2787.	6.2	13
11	Edge-enriched MoS <sub>2</sub> nanosheets modified porous nanosheet-assembled hierarchical In <sub>2</sub> O <sub>3</sub> microflowers for room temperature detection of NO <sub>2</sub> with ultrahigh sensitivity and selectivity. Journal of Hazardous Materials, 2022, 434, 128836.	6.5	73
12	Approach for Parameter Calibration to Microgrid Model With Problematic Parameter Identification. IEEE Transactions on Industry Applications, 2022, 58, 4289-4297.	3.3	0
13	A Cooperative Control Strategy against Cyber-attacks for Power System with High Penetration Wind Farm. , 2022, , .		2
14	A GRU-Based Short-Term Multi-energy Loads Forecast Approach for Integrated Energy System. , 2022, , .		3
15	Grid-Forming Converter in High Penetration of Converter-Interfaced Generation Large-Scale Power System: A Review of Synchronization Stability. , 2022, , .		1
16	A Deep Deterministic Policy Gradient Based Method for Distribution System Load Frequency Coordinated Control with PV and ESS. , 2022, , .		1
17	Improved Multi-Conductor Interactive Rejection for Current Measurement with Magnetic Sensors Array. , 2022, , .		1
18	A Novel Belief Function Based Framework for UOPF With Multiprobability-Characterized and Knowledge Deficient Power Sources. IEEE Transactions on Industrial Informatics, 2021, 17, 3153-3164.	7.2	3

#	ARTICLE	IF	CITATIONS
19	Design for Reliability Through Text Mining and Optimal Product Verification and Validation Planning. IEEE Transactions on Reliability, 2021, 70, 231-247.	3.5	11
20	A simulation and experiment coassisted learning platform for understanding electromagnetic interaction in a smart grid. Computer Applications in Engineering Education, 2021, 29, 1223-1233.	2.2	0
21	A do-it-yourself approach to achieving a flexible pressure sensor using daily use materials. Journal of Materials Chemistry C, 2021, 9, 13659-13667.	2.7	76
22	A Data-Driven Gross Domestic Product Forecasting Model Based on Multi-Indicator Assessment. IEEE Access, 2021, 9, 99495-99503.	2.6	8
23	Gaussian Process Kernel Transfer Enabled Method for Electric Machines Intelligent Faults Detection With Limited Samples. IEEE Transactions on Energy Conversion, 2021, 36, 3481-3490.	3.7	15
24	Estimation of Subsynchronous Oscillation Using a Sliding Window Iterative DFT Algorithm. , 2021, , .		1
25	Non-contact fault location and identification method for same-tower multi-circuit transmission lines. Energy Reports, 2021, 7, 147-158.	2.5	8
26	Facilely constructed two-sided microstructure interfaces between electrodes and cellulose paper active layer: eco-friendly, low-cost and high-performance piezoresistive sensor. Cellulose, 2021, 28, 6389.	2.4	48
27	A Facile Strategy for Low Young's Modulus PDMS Microbeads Enhanced Flexible Capacitive Pressure Sensors. Particle and Particle Systems Characterization, 2021, 38, 2100019.	1.2	13
28	A Facile Strategy for Low Young's Modulus PDMS Microbeads Enhanced Flexible Capacitive Pressure Sensors (Part. Part. Syst. Charact. 7/2021). Particle and Particle Systems Characterization, 2021, 38, 2170016.	1.2	0
29	Non-contact measurement of traveling wave of overhead transmission line. Measurement: Journal of the International Measurement Confederation, 2021, 181, 109557.	2.5	7
30	Novel Data-Driven Approach Based on Capsule Network for Intelligent Multi-Fault Detection in Electric Motors. IEEE Transactions on Energy Conversion, 2021, 36, 2173-2184.	3.7	21
31	Fault location in overhead transmission line: A novel non-contact measurement approach for traveling wave-based scheme. International Journal of Electrical Power and Energy Systems, 2021, 133, 107233.	3.3	7
32	Deep Reinforcement Learning Based Approach for Optimal Power Flow of Distribution Networks Embedded with Renewable Energy and Storage Devices. Journal of Modern Power Systems and Clean Energy, 2021, 9, 1101-1110.	3.3	41
33	Integrated cross-section interface engineering and surface encapsulating strategy: A high-response, waterproof, and low-cost paper-based bending strain sensor. Journal of Materials Chemistry C, 2021, 9, 14003-14011.	2.7	33
34	Short-term load forecasting based on <sc>LSTNet</sc> in power system. International Transactions on Electrical Energy Systems, 2021, 31, e13164.	1.2	7
35	A novel deep reinforcement learning enabled agent for pumped storage hydro-solar systems voltage control. IET Renewable Power Generation, 2021, 15, 3941-3956.	1.7	6
36	Protrusion Microstructure-Induced Sensitivity Enhancement for Zinc Oxide-Carbon Nanotube Flexible Pressure Sensors. ACS Applied Electronic Materials, 2021, 3, 5506-5513.	2.0	28

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37	A Computational Attractive Interval Power Flow Approach With Correlated Uncertain Power Injections. , 2021, , .		0
38	Load Elasticity-Based Reallocation of Energy in a Peer-to-Peer Electricity Market Considering Consumersâ€™ Willingness. , 2021, , .		0
39	Decentralized Voltage Control of Large-Scale Distribution System with PVs Based on MADRL. , 2021, , .		0
40	A Novel Non-contact Measurement Method for Current Positioning Based on Magnetic Sensors. , 2021, , .		2
41	Fault Detection and Localization for Overhead 11-kV Distribution Lines With Magnetic Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2028-2038.	2.4	49
42	Quantitative Assessment of Stochastic Property of Network-Induced Time Delay in Smart Substation Cyber Communications. IEEE Transactions on Smart Grid, 2020, 11, 2407-2416.	6.2	13
43	An Online-Learning Sequence Prediction Model for Grid Alarms. , 2020, , .		0
44	Probabilistic load flow computation considering dependence of wind powers and using quasi-Monte Carlo method with truncated regular vine copula. International Transactions on Electrical Energy Systems, 2020, 30, e12646.	1.2	5
45	Analysis of Solar PV and Wind Power Penetration into Nigeria Electricity System. , 2020, , .		2
46	A Contactless Method for Unbalanced Loading Detection in Power Distribution Lines by Magnetic Measurements. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7472-7483.	2.4	8
47	Improved probabilistic load flow method based on vine copulas and Latin hypercube sampling in distribution network with multiple wind generators. IET Generation, Transmission and Distribution, 2020, 14, 893-899.	1.4	25
48	A Multi-Agent Deep Reinforcement Learning Based Voltage Regulation Using Coordinated PV Inverters. IEEE Transactions on Power Systems, 2020, 35, 4120-4123.	4.6	117
49	Real-time and contactless initial current traveling wave measurement for overhead transmission line fault detection based on tunnel magnetoresistive sensors. Electric Power Systems Research, 2020, 187, 106508.	2.1	11
50	Economical operation strategy of an integrated energy system with wind power and power to gas technology â€” a DRL-based approach. IET Renewable Power Generation, 2020, 14, 3292-3299.	1.7	10
51	Preliminary Performance Evaluation of a SR-HSRM. , 2020, , .		0
52	A State-of-Art Review on Energy Internet and Internet of Energy Advancements. , 2020, , .		4
53	Cooperative Game Operation Strategy of a Hydropower-Photovoltaic-Pumped Storage System in the Electricity Market. , 2020, , .		0
54	Deep Reinforcement Learning-based Approach for Online Tuning SMES Damping Controller Parameters. , 2020, , .		2

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55	Cost-effective Energy Management System in Prosumer based Electricity Market. , 2020, , .		5
56	Optimized Water Consumption Considering Power Plants Efficiency in Power System Generation. , 2019, , .		1
57	Optimized Operation of Hybrid System Integrated With MHP, PV and PHS Considering Generation/Load Similarity. IEEE Access, 2019, 7, 107793-107804.	2.6	14
58	An Imbalance Fault Detection Algorithm for Variable-Speed Wind Turbines: A Deep Learning Approach. Energies, 2019, 12, 2764.	1.6	37
59	Optimal Investment Strategies for Solar Energy Based Systems. Energies, 2019, 12, 2826.	1.6	6
60	Noncontact Current Source Reconstruction Based on Independent Component Analysis-A Simulation Study. , 2019, , .		1
61	Optimized Placement of Onshore Wind Farms Considering Topography. Energies, 2019, 12, 2944.	1.6	13
62	A Hybrid Cable Connection Structure for Wind Farms With Reliability Consideration. IEEE Access, 2019, 7, 144398-144407.	2.6	4
63	Spectral Processing of Self-Mixing Interferometric Signal Phase for Improved Vibration Sensing Under Weak- and Moderate-Feedback Regime. IEEE Sensors Journal, 2019, 19, 11151-11158.	2.4	29
64	A Novel Method for Wide Range Electric Current Measurement in Gas-Insulated Switchgears With Shielded Magnetic Measurements. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 4712-4722.	2.4	11
65	Tolerant Control of Voltage Signal Fault for Converter Station Based Multi-Terminal HVDC Systems. IEEE Access, 2019, 7, 48175-48184.	2.6	4
66	A novel non-invasion magnetic sensor array based measurement method of large current. Measurement: Journal of the International Measurement Confederation, 2019, 139, 78-84.	2.5	15
67	Congestion Response Cost Assessment of Process-layer Network in Smart Substation. , 2019, , .		0
68	A Novel Active Power Dispatch Method for Onshore Wind Farms to Reduce Wind Turbine Noise. , 2019, , .		1
69	Stabilization of Time-delayed Power System with Combined Frequency Domain IQC and Time Domain Dissipation Inequality. , 2019, , .		0
70	Optimised Wind Farm Active and Reactive Power Dispatch While Considering Fatigue Distribution. , 2019, , .		0
71	Imprecise Reliability Analysis for the Robotic Component Based on Limited Lifetime Data. IEEE Access, 2019, 7, 163877-163886.	2.6	2
72	Performance Analyses of a Renewable Energy Powered System for Trigenation. Sustainability, 2019, 11, 6006.	1.6	19

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73	A Novel Adaptive Filter for Accurate Measurement of Current with Magnetic Sensor Array. , 2018, , .		4
74	Smart Substation: State of the Art and Future Development. , 2018, , .		0
75	A Closed Normal Form Solution Under Near-Resonant Modal Interaction in Power Systems. , 2018, , .		0
76	A numerical study for dielectric constant profile of aqueous solvent in ionic solution radiated by high-intensity electric pulses. AIP Advances, 2018, 8, 115217.	0.6	3
77	Framework and Implementation of Linkage Control for Unmanned Smart Substation Security Improvement. , 2018, , .		0
78	A Study of Logistic Regression-Based Discrimination Method of False Overcurrent Alarm of 500kV High-voltage Shunt Reactor. , 2018, , .		0
79	A Novel Method for Wind Farm Equivalence Based on Multi-Objective Optimization. , 2018, , .		0
80	Optimal Operation of Photovoltaic-Pump Hydro Storage Hybrid System. , 2018, , .		4
81	A Novel Approach for Onshore Wind Farm Energy Production Calculation with Different Topographic Heights. , 2018, , .		0
82	A Novel Approach Based on Process Identification for Estimating the Time of Arrival of Electromechanical Wave. , 2018, , .		0
83	Design and Application of Big Data Platform Architecture for Typical Scenarios of Power System. , 2018, , .		5
84	Research on Automatic Generation Technology for Secondary Equipment of Security Measures of Smart Substation. , 2018, , .		1
85	Substation Location and Cable Connection Optimization of Onshore Wind Farms Using Minimum Spanning Tree Algorithm. , 2018, , .		1
86	Interference-Resisting current measurement method with tunnel magnetoresistive magnetic sensor array. IET Science, Measurement and Technology, 2018, 12, 733-738.	0.9	26
87	Separated Double-Layer Magnetic Shielding With Magnetic Sensor For Large Current Measurement. , 2018, , .		5
88	New characteristics of weighted GDOP in multi-GNSS positioning. GPS Solutions, 2018, 22, 1.	2.2	15
89	Estimation of Current and Sag in Overhead Power Transmission Lines With Optimized Magnetic Field Sensor Array Placement. IEEE Transactions on Magnetics, 2017, 53, 1-10.	1.2	76
90	Estimating Sag and Wind-Induced Motion of Overhead Power Lines With Current and Magnetic-Flux Density Measurements. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 897-909.	2.4	41

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91	Monitoring of Overhead Transmission Lines: A Review from the Perspective of Contactless Technologies. Sensing and Imaging, 2017, 18, 1.	1.0	38
92	Efficient energy resource scheduling for sustainable diversified farming. Journal of Renewable and Sustainable Energy, 2017, 9, 044902.	0.8	3
93	A novel approach to improve model generalization ability in dynamic equivalent of active distribution network. , 2017, , .		2
94	Optimal operation and location of heat pumps in the integrated energy systems. , 2017, , .		6
95	Scheduling optimization of islanded mode microgrid based on a charging/discharging strategy for storage batteries. , 2017, , .		1
96	A Novel High-Frequency Voltage Standing-Wave Ratio-Based Grounding Electrode Line Fault Supervision in Ultra-High Voltage DC Transmission Systems. Energies, 2017, 10, 309.	1.6	8
97	Monitoring of optical power in fiber communication for secondary equipment in smart substation. , 2017, , .		1
98	A coordinated charging strategy for electric vehicles based on multi-objective optimization. , 2017, , .		12
99	Blockchain technology for electricity market in microgrid. , 2017, , .		27
100	Scheduling optimization of microgrid considering electric vehicles. , 2017, , .		5
101	A practical preset position calibration technique for unattended smart substation security improvement. , 2017, , .		1
102	An approach to modeling secondary system functional correlation of smart substation. , 2016, , .		0
103	Research on improved cache replacement algorithm serving for wind power system. , 2016, , .		0
104	Design and implementation of an evaluation system of functional damage in smart substation. , 2016, , .		0
105	Simulation-based micro-site selection for wind farm in complex terrain. , 2016, , .		0
106	Research of the influence of rectifier alpha min limiter on the system stability. , 2016, , .		1
107	A wind turbine control method based on Jensen model. , 2016, , .		3
108	Development of the test platform for the characteristics of the Rogowski coil electronic current transformer. , 2016, , .		3

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109	Characteristic estimation of high voltage transmission line conductors with simultaneous magnetic field and current measurements. , 2016, , .		15
110	An automatic graphical display of correlated functions of secondary systems in smart substations. , 2016, , .		0
111	Delay-Dependent Stability Control for Power System With Multiple Time-Delays. IEEE Transactions on Power Systems, 2016, 31, 2316-2326.	4.6	110
112	A calibration method of the zero-drift for testing system of electronic transformer characteristics. , 2015, , .		1
113	An Evaluation of Different Controllers Based on the Network Frequency Maintenance Strategy for a Large and Multi-control-area Interconnected Power System. Electric Power Components and Systems, 2015, 43, 1257-1267.	1.0	1
114	A Novel Two-Stage NNFL Strategy for Load-Frequency Control Using SMES. IETE Journal of Research, 2015, 61, 392-401.	1.8	4
115	Passivity and Absolute Stability Analyses of Trilateral Haptic Collaborative Systems. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 3-20.	2.0	14
116	Single Image Super-Resolution via LO Image Smoothing. Mathematical Problems in Engineering, 2014, 2014, 1-8.	0.6	1
117	Noncontact operation-state monitoring technology based on magnetic-field sensing for overhead high-voltage transmission lines. , 2014, , .		4
118	A novel whole-view test approach for onsite commissioning in smart substation. , 2014, , .		0
119	Short-term solar photovoltaic irradiation predicting using a nonlinear prediction method. , 2014, , .		1
120	Magnetics in Smart Grid. IEEE Transactions on Magnetics, 2014, 50, 1-7.	1.2	32
121	Broadband Point Measurement of Transient Magnetic Interference in Substations With Magneto-resistive Sensors. IEEE Transactions on Magnetics, 2014, 50, 1-5.	1.2	9
122	Stability of cooperative teleoperation using haptic devices with complementary degrees of freedom. IET Control Theory and Applications, 2014, 8, 1062-1070.	1.2	12
123	Noncontact Operation-State Monitoring Technology Based on Magnetic-Field Sensing for Overhead High-Voltage Transmission Lines. IEEE Transactions on Power Delivery, 2013, 28, 2145-2153.	2.9	71
124	Design and implementation of a non-contact magnetic field measurement based fault location system for overhead transmission line. , 2013, , .		3
125	Development and application of a portable 3-axis transient magnetic field measuring system based on AMR sensor. , 2013, , .		5
126	Conservatism of passivity criteria for stability analysis of trilateral haptic systems. , 2013, , .		1



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127	A Novel Approach for Fault Location of Overhead Transmission Line With Noncontact Magnetic-Field Measurement. IEEE Transactions on Power Delivery, 2012, 27, 1186-1195.	2.9	65
128	A novel structure for smart grid oriented to low-carbon energy. , 2011, , .		2
129	Robust adaptive controller with disturbance observer for vehicular radar servo system. International Journal of Control, Automation and Systems, 2011, 9, 169-175.	1.6	16
130	The Feasibility Study of Monitoring System of Icing on Transmission Line Based on Fiber Optic Sensor. , 2010, , .		1
131	Configure vulnerability assessment based on potential energy model. , 2009, , .		2
132	Design and Implementation of a Power System Sensor Network for Wide-Area Measurement. , 2008, , .		5
133	An Artificial Neural Network Based on CIEA. , 2008, , .		1
134	An Adaptive Video Sequence Denoising Algorithm. , 2008, , .		0
135	Study on the Performance of Grid Computing in Power System Distributed Computing. , 2008, , .		0
136	Development of a grid computing platform for electric power system applications. , 2006, , .		16
137	Numerical simulation of dry-band arcing on the surface of ADSS fiber-optic cable. IEEE Transactions on Dielectrics and Electrical Insulation, 2005, 12, 496-503.	1.8	5
138	Development of an MPI for Power System Distributed Parallel Computing in Wide Area Network with P2P Technology. , 0, , .		4
139	A Software Architecture Based on Multi-Agent and Grid Computing for Electric Power System Applications. , 0, , .		9
140	A biomass-integrated comprehensive energy system: thermodynamics assessment and performance comparison of sugarcane bagasse and rice husk as input source. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-18.	1.2	5
141	Application of deep learning for solar irradiance and solar photovoltaic multi-parameter forecast. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-21.	1.2	18