

Baseem Khan

List of Publications by Year in descending order

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146
papers

2,302
citations

218592

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38
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167
all docs

167
docs citations

167
times ranked

925
citing authors

#	ARTICLE	IF	CITATIONS
1	Selecting a Meta-Heuristic Technique for Smart Micro-Grid Optimization Problem: A Comprehensive Analysis. IEEE Access, 2017, 5, 13951-13977.	2.6	131
2	Power Quality Assessment and Event Detection in Distribution Network With Wind Energy Penetration Using Stockwell Transform and Fuzzy Clustering. IEEE Transactions on Industrial Informatics, 2020, 16, 6922-6932.	7.2	107
3	Design of an off-grid hybrid PV/wind power system for remote mobile base station: A case study. AIMS Energy, 2017, 5, 96-112.	1.1	60
4	A Comprehensive Review of Microgrid Control Mechanism and Impact Assessment for Hybrid Renewable Energy Integration. IEEE Access, 2021, 9, 88942-88958.	2.6	59
5	Smart Microgrid Energy Management Using a Novel Artificial Shark Optimization. Complexity, 2017, 2017, 1-22.	0.9	52
6	Optimal Power Flow Techniques under Characterization of Conventional and Renewable Energy Sources: A Comprehensive Analysis. Journal of Engineering (United States), 2017, 2017, 1-16.	0.5	52
7	Assessment of power quality in the utility grid integrated with wind energy generation. IET Power Electronics, 2020, 13, 2917-2925.	1.5	49
8	The Current and Future States of Ethiopia's Energy Sector and Potential for Green Energy: A Comprehensive Study. International Journal of Engineering Research in Africa, 0, 33, 115-139.	0.7	48
9	Optimal Power Flow Solution Based on Jellyfish Search Optimization Considering Uncertainty of Renewable Energy Sources. IEEE Access, 2021, 9, 100911-100933.	2.6	48
10	Prefeasibility Economic and Sensitivity Assessment of Hybrid Renewable Energy System. IEEE Access, 2021, 9, 28260-28271.	2.6	45
11	Assessment and Enhancement of Distribution System Reliability by Renewable Energy Sources and Energy Storage. Journal of Green Engineering (discontinued), 2018, 8, 219-262.	0.7	44
12	Effect of Various Incremental Conductance MPPT Methods on the Charging of Battery Load Feed by Solar Panel. IEEE Access, 2021, 9, 90977-90988.	2.6	44
13	A holistic analysis of distribution system reliability assessment methods with conventional and renewable energy sources. AIMS Energy, 2019, 7, 413-429.	1.1	42
14	Artificial Neural Network and Newton Raphson (ANN-NR) Algorithm Based Selective Harmonic Elimination in Cascaded Multilevel Inverter for PV Applications. IEEE Access, 2021, 9, 75058-75070.	2.6	41
15	Recognition of Complex Power Quality Disturbances Using S-Transform Based Ruled Decision Tree. IEEE Access, 2020, 8, 173530-173547.	2.6	40
16	Alienation Coefficient and Wigner Distribution Function Based Protection Scheme for Hybrid Power System Network with Renewable Energy Penetration. Energies, 2020, 13, 1120.	1.6	37
17	Artificial Intelligence Versus Conventional Mathematical Techniques: A Review for Optimal Placement of Phasor Measurement Units. Technology and Economics of Smart Grids and Sustainable Energy, 2016, 1, 1.	1.8	36
18	An Algorithm for Recognition of Fault Conditions in the Utility Grid with Renewable Energy Penetration. Energies, 2020, 13, 2383.	1.6	36

#	ARTICLE	IF	CITATIONS
19	A Protection Scheme for a Power System with Solar Energy Penetration. Applied Sciences (Switzerland), 2020, 10, 1516.	1.3	33
20	Designing and modelling of grid connected photovoltaic system (case study: EEU Building at Hawassa) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	32
21	Wavelet-Alienation-Neural-Based Protection Scheme for STATCOM Compensated Transmission Line. IEEE Transactions on Industrial Informatics, 2021, 17, 2557-2565.	7.2	31
22	Modified incremental conductance MPPT algorithm for SPV-based grid-tied and stand-alone systems. IET Generation, Transmission and Distribution, 2022, 16, 776-791.	1.4	30
23	Modeling and designing of stand-alone photovoltaic system: CaseStudy: Addis Boder health center south west Ethiopia. , 2017, , .		29
24	Recognition of Power Quality Issues Associated With Grid Integrated Solar Photovoltaic Plant in Experimental Framework. IEEE Systems Journal, 2021, 15, 3740-3748.	2.9	29
25	Imperative Role of Photovoltaic and Concentrating Solar Power Technologies towards Renewable Energy Generation. International Journal of Photoenergy, 2022, 2022, 1-13.	1.4	29
26	Comprehensive Overview of Power System Flexibility during the Scenario of High Penetration of Renewable Energy in Utility Grid. Energies, 2022, 15, 516.	1.6	29
27	Smart Heart Disease Prediction System with IoT and Fog Computing Sectors Enabled by Cascaded Deep Learning Model. Computational Intelligence and Neuroscience, 2022, 2022, 1-22.	1.1	29
28	A novel transmission loss allocation method based on transmission usage. , 2012, , .		28
29	Optimal expansion planning of distribution system using grid-based multi-objective harmony search algorithm. Computers and Electrical Engineering, 2020, 87, 106823.	3.0	28
30	A Multipurpose Matrices Methodology for Transmission Usage, Loss and Reliability Margin Allocation in Restructured Environment. SSRN Electronic Journal, 0, , .	0.4	28
31	Hybrid Energy System for Upgrading the Rural Environment. , 2018, , .		27
32	Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. IEEE Access, 2021, 9, 13737-13753.	2.6	27
33	Energy-Aware Online Non-Clairvoyant Scheduling Using Speed Scaling with Arbitrary Power Function. Applied Sciences (Switzerland), 2019, 9, 1467.	1.3	26
34	Optimal placement of phasor measurement unit for system observability: (Case study: Southern region) Tj ETQq0 0 0 rgBT /Overlock 10 T		25
35	A Novel Modular Radiation Hardening Approach Applied to a Synchronous Buck Converter. Electronics (Switzerland), 2019, 8, 513.	1.8	25
36	Recognition of Islanding and Operational Events in Power System With Renewable Energy Penetration Using a Stockwell Transform-Based Method. IEEE Systems Journal, 2022, 16, 166-175.	2.9	24

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37	A Hybrid Algorithm for Recognition of Power Quality Disturbances. IEEE Access, 2020, 8, 229184-229200.	2.6	24
38	Issues Associated With Microgrid Integration. Advances in Computer and Electrical Engineering Book Series, 2019, , 252-264.	0.2	24
39	Design and Performance Analysis of Hybrid Battery and Ultracapacitor Energy Storage System for Electrical Vehicle Active Power Management. Sustainability, 2022, 14, 776.	1.6	24
40	A Cooperative Game Theory Approach for Usage and Reliability Margin Cost Allocation under Contingent Restructured Market. International Review of Electrical Engineering, 2014, 9, 854.	0.1	23
41	Optimal instantaneous prediction of voltage instability due to transient faults in power networks taking into account the dynamic effect of generators. Cogent Engineering, 2022, 9, .	1.1	23
42	Analyzing low voltage ride through capability of doubly fed induction generator based wind turbine. Computers and Electrical Engineering, 2020, 86, 106727.	3.0	22
43	VMSHield: Memory Introspection-Based Malware Detection to Secure Cloud-Based Services Against Stealthy Attacks. IEEE Transactions on Industrial Informatics, 2021, 17, 6754-6764.	7.2	22
44	Economic Operation of Smart Micro-Grid. Advances in Computer and Electrical Engineering Book Series, 2019, , 330-346.	0.2	22
45	Available transfer capability enhancement by unified power flow controller. , 2015, , .		21
46	Simultaneous Long-Term Planning of Flexible Electric Vehicle Photovoltaic Charging Stations in Terms of Load Response and Technical and Economic Indicators. World Electric Vehicle Journal, 2021, 12, 190.	1.6	21
47	Reliability enhancement and voltage profile improvement of distribution network using optimal capacity allocation and placement of distributed energy resources. Computers and Electrical Engineering, 2021, 93, 107295.	3.0	20
48	Harmonic mitigation and power quality improvement in utility grid with solar energy penetration using distribution static compensator. IET Power Electronics, 2021, 14, 912-922.	1.5	19
49	A comprehensive review on IoT-based infrastructure for smart grid applications. IET Renewable Power Generation, 2021, 15, 3761-3776.	1.7	17
50	Optimal integration of DSTATCOM using improved bacterial search algorithm for distribution network optimization. AEJ - Alexandria Engineering Journal, 2022, 61, 5539-5555.	3.4	16
51	Model Order Diminution of Discrete Interval Systems Using Kharitonov Polynomials. IEEE Access, 2022, 10, 66722-66733.	2.6	16
52	Integration of Renewable Based Distributed Generation for Distribution Network Expansion Planning. Energies, 2022, 15, 1378.	1.6	15
53	Implementation of APSO and Improved APSO on Non-Cascaded and Cascaded Short Term Hydrothermal Scheduling. IEEE Access, 2021, 9, 77784-77797.	2.6	14
54	A Novel k -Means Clustering and Weighted k -NN-Regression-Based Fast Transmission Line Protection. IEEE Transactions on Industrial Informatics, 2021, 17, 6034-6043.	7.2	14

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55	High-power DC-DC converter with proposed HSFNA MPPT for photovoltaic based ultra-fast charging system of electric vehicles. IET Renewable Power Generation, 0, , .	1.7	14
56	Securing Microgrid Optimal Energy Management Using Deep Generative Model. IEEE Access, 2021, 9, 63377-63387.	2.6	13
57	Design and Control of Grid-Connected PWM Rectifiers by Optimizing Fractional Order PI Controller Using Water Cycle Algorithm. IEEE Access, 2021, 9, 125941-125954.	2.6	13
58	Determination of Power Transformers Health Index Using Parameters Affecting the Transformer's Life. IETE Journal of Research, 2023, 69, 8467-8488.	1.8	13
59	Mitigation of Low-Frequency Oscillation in Power Systems through Optimal Design of Power System Stabilizer Employing ALO. Energies, 2022, 15, 3809.	1.6	13
60	Identification of Islanding Events in Utility Grid With Renewable Energy Penetration Using Current Based Passive Method. IEEE Access, 2021, 9, 93781-93794.	2.6	12
61	Shade dispersion methodologies for performance improvement of classical total cross-tied photovoltaic array configuration under partial shading conditions. IET Renewable Power Generation, 2021, 15, 1796-1811.	1.7	12
62	An Efficient Approach With Application of Linear and Nonlinear Models for Evaluation of Power Transformer Health Index. IEEE Access, 2021, 9, 150172-150186.	2.6	12
63	Imperative Role of Technology Intervention and Implementation for Automation in the Construction Industry. Advances in Civil Engineering, 2022, 2022, 1-19.	0.4	12
64	Qualitative Analysis of Text Summarization Techniques and Its Applications in Health Domain. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.1	11
65	An Adaptive Tunicate Swarm Algorithm for Optimization of Shallow Foundation. IEEE Access, 2022, 10, 39204-39219.	2.6	11
66	A review on short-term load forecasting models for microgrid application. Journal of Engineering, 2022, 2022, 665-689.	0.6	11
67	A multivariable transmission line protection scheme using signal processing techniques. IET Generation, Transmission and Distribution, 2021, 15, 3115-3137.	1.4	10
68	An adaptive-neuro fuzzy inference system based-hybrid technique for performing load disaggregation for residential customers. Scientific Reports, 2022, 12, 2384.	1.6	10
69	Optimal tuning of fractional-order proportional, integral, derivative and tilt-integral-derivative based power system stabilizers using Runge Kutta optimizer. Engineering Reports, 2022, 4, .	0.9	10
70	Hybridization of the Stockwell Transform and Wigner Distribution Function to Design a Transmission Line Protection Scheme. Applied Sciences (Switzerland), 2020, 10, 7985.	1.3	9
71	Development of Stand-Alone Green Hybrid System for Rural Areas. Sustainability, 2020, 12, 3808.	1.6	9
72	IoT Inspired Intelligent Monitoring and Reporting Framework for Education 4.0. IEEE Access, 2021, 9, 131286-131305.	2.6	9

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73	A protection scheme for distribution utility grid with wind energy penetration. Computers and Electrical Engineering, 2021, 94, 107324.	3.0	9
74	A Hybrid Signal Processing Technique for Recognition of Complex Power Quality Disturbances. Electric Power Systems Research, 2022, 207, 107865.	2.1	9
75	Developing a Marine Predator Algorithm for Optimal Power Flow Analysis considering Uncertainty of Renewable Energy Sources. International Transactions on Electrical Energy Systems, 2022, 2022, 1-16.	1.2	9
76	An Approach for Transmission Loss and Cost Allocation by Loss Allocation Index and Co-operative Game Theory. Journal of the Institution of Engineers (India): Series B, 2016, 97, 41-46.	1.3	8
77	Feasibility Analysis and Development of Stand-Alone Hybrid Power Generation System for Remote Areas: A Case Study of Ethiopian Rural Area. Wind, 2022, 2, 68-86.	0.6	8
78	Optimal Placement of Renewable Energy Generators Using Grid-Oriented Genetic Algorithm for Loss Reduction and Flexibility Improvement. Energies, 2022, 15, 1863.	1.6	8
79	Implementation of Optimization-Based PI Controller Tuning for Non-Ideal Differential Boost Inverter. IEEE Access, 2021, 9, 58677-58688.	2.6	7
80	Sub-synchronous interaction damping controller for a series-compensated DFIG-based wind farm. IET Renewable Power Generation, 2022, 16, 933-944.	1.7	7
81	Voltage stability improvement of an Egyptian power grid-based wind energy system using STATCOM. Wind Energy, 2022, 25, 1077-1120.	1.9	7
82	Mitigating Generation Schedule Deviation of Wind Farm Using Battery Energy Storage System. Energies, 2022, 15, 1768.	1.6	7
83	Energy Production in Smart Cities by Utilization of Kinetic Energy of Vehicles Over Speed Breaker. International Journal of Civic Engagement and Social Change, 2018, 5, 1-35.	0.1	6
84	Microgrid Integration. , 0, , .		6
85	Analysing integration issues of the microgrid system with utility grid network. International Journal of Emerging Electric Power Systems, 2021, 22, 113-127.	0.6	6
86	Voltage-Based Hybrid Algorithm Using Parameter Variations and Stockwell Transform for Islanding Detection in Utility Grids. Informatics, 2021, 8, 21.	2.4	6
87	Recognition of complex and multiple power quality disturbances using wavelet packet-based fast kurtogram and ruled decision tree algorithm. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2150032.	0.9	6
88	Performance Evaluation of a MW-Size Grid-Connected Solar Photovoltaic Plant Considering the Impact of Tilt Angle. Sustainability, 2022, 14, 1444.	1.6	6
89	Optimal Service Restoration Scheme for Radial Distribution Network Using Teaching Learning Based Optimization. Energies, 2022, 15, 2505.	1.6	6
90	Transmission pricing scheme under contingency conditions in open access market. , 2014, , .		5

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91	A Shapley value approach for transmission usage cost allocation under contingent restructured market. , 2015, , .		5
92	Advanced Reactive Power Compensation of Wind Power Plant Using PMU Data. IEEE Access, 2021, 9, 67006-67014.	2.6	5
93	Estimation of Islanding Events in Utility Distribution Grid With Renewable Energy Using Current Variations and Stockwell Transform. IEEE Access, 2021, 9, 69798-69813.	2.6	5
94	Optimizing energy consumption patterns of smart home based on Sine Cosine Algorithm. IET Generation, Transmission and Distribution, 2022, 16, 984-999.	1.4	5
95	Optimal planning of uncertain renewable energy sources in unbalanced distribution systems by a multi-objective hybrid PSO-SCO algorithm. IET Renewable Power Generation, 2022, 16, 2111-2124.	1.7	5
96	Rank-Sum-Weight Method Based Systematic Determination of Weights for Controller Tuning for Automatic Generation Control. IEEE Access, 2022, 10, 68161-68174.	2.6	5
97	Transformer-based time series prediction of the maximum power point for solar photovoltaic cells. Energy Science and Engineering, 2022, 10, 3397-3410.	1.9	5
98	Development of DC Microgrid Integrated Electric Vehicle Charging Station With Fuzzy Logic Controller. Frontiers in Energy Research, 0, 10, .	1.2	5
99	Transmission pricing using power flow tracing methodology with consideration N-1 security criterion. , 2014, , .		4
100	Harmonics Mitigation in Industrial Sector by using Space Vector PWM and Shunt Active Power Filter. , 2020, , .		4
101	Combined Stockwell and Hilbert Transforms Based Technique for the Detection of Islanding Events in Hybrid Power System. , 2020, , .		4
102	Economic Operation of Smart Micro-Grid. , 2022, , 1213-1230.		4
103	An experimental performance verification of continuous mixed P-norm based adaptive asymmetrical fuzzy logic controller for single stage photovoltaic grid integration. IET Renewable Power Generation, 0, , .	1.7	4
104	Regenerative Braking in Electric Vehicle Using Quadratic Gain Bidirectional Converter. International Transactions on Electrical Energy Systems, 2022, 2022, 1-20.	1.2	4
105	Conducted electromagnetic emissions of compact fluorescent lamps and electronic ballast modeling. AIMS Electronics and Electrical Engineering, 2022, 6, 178-187.	0.8	4
106	Smart Healthcare: Disease Prediction Using the Cuckoo-Enabled Deep Classifier in IoT Framework. Scientific Programming, 2022, 2022, 1-11.	0.5	4
107	Improved power maxima point of photovoltaic system using umbrella optimizing technique under PSCs: An experimental study. IET Renewable Power Generation, 2022, 16, 2059-2075.	1.7	4
108	Design and Implementation of Hybrid Transmission Line Protection Scheme Using Signal Processing Techniques. International Transactions on Electrical Energy Systems, 2022, 2022, 1-20.	1.2	4

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109	Managing Energy Plus Performance in Data Centers and Battery-Based Devices Using an Online Non-Clairvoyant Speed-Bounded Multiprocessor Scheduling. Applied Sciences (Switzerland), 2020, 10, 2459.	1.3	3
110	Line start synchronous reluctance motor with improved power factor for agriculture electric pump applications. Journal of Engineering, 2022, 2022, 295-310.	0.6	3
111	Impact of stator slot geometry on the windage loss in a high-speed linear switched reluctance motor. IET Electric Power Applications, 2022, 16, 447-462.	1.1	3
112	Interaction of Transformer Oil Parameters on Each Other and on Transformer Health Index Using Curve Estimation Regression Method. International Transactions on Electrical Energy Systems, 2022, 2022, 1-14.	1.2	3
113	A Voltage Based Technique Using Combined Features of Stockwell Transform and Hilbert Transform for Detection of Islanding Events. , 2020, , .		2
114	A High-Reliability Redundancy Scheme for Design of Radiation-Tolerant Half-Duty Limited DC-DC Converters. Electronics (Switzerland), 2021, 10, 1146.	1.8	2
115	Reactive power compensation for voltage variation mitigation in grid with renewable energy. , 2022, , 415-426.		2
116	Islanding detection in utility grid with renewable energy using rate of change of frequency and signal processing technique. AIMS Electronics and Electrical Engineering, 2022, 6, 144-160.	0.8	2
117	Design and Implementation of a Novel Intelligent Strategy for the Permanent Magnet Synchronous Motor Emulation. Complexity, 2022, 2022, 1-15.	0.9	2
118	Optimal allocation of distributed generation with the presence of photovoltaic and battery energy storage system using improved barnacles mating optimizer. Energy Science and Engineering, 2022, 10, 2970-3000.	1.9	2
119	KlugOculus: A Vision-Based Intelligent Architecture for Security System. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.1	2
120	Design Aspects and Thermal Characteristics of Single-Sided Linear Induction Motor for Electromagnetic Launch Application. IEEE Access, 2022, 10, 72239-72252.	2.6	2
121	Optimal transmission pricing with reliability indices. , 2014, , .		1
122	A PSO based approach for usage and cost allocation under contingent restructured market. , 2015, , .		1
123	Game Theory Application in Smart Energy Logistics and Economy. , 0, , .		1
124	Components of the smart-grid system. , 2021, , 385-397.		1
125	Capacity-based optimization using whale optimization technique of a power distribution network. Engineering Reports, 0, , e12455.	0.9	1
126	Impressions of remote area electrification on social and economic indicators. AIMS Energy, 2020, 8, 1045-1068.	1.1	1

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127	Energy Storage System and Its Power Electronic Interface. Advances in Computer and Electrical Engineering Book Series, 2020, , 309-321.	0.2	1
128	Comprehensive Review of KY Converter Topologies, Modulation and Control Approaches With Their Applications. IEEE Access, 2022, 10, 20978-20994.	2.6	1
129	Multivariable passive method for detection of islanding events in renewable energy based power grids. IET Renewable Power Generation, 2022, 16, 497-516.	1.7	1
130	Hybrid protection algorithm for power system with renewable energy generation using Stockwell transform and Wigner distribution function. Journal of Engineering, 2022, 2022, 832-846.	0.6	1
131	A TCSC incorporated power flow model for embedded transmission usage and loss allocation. , 2014, , .		0
132	Energy Storage System and Its Power Electronic Interface. , 2022, , 183-195.		0
133	Issues Associated With Microgrid Integration. , 2022, , 1386-1397.		0
134	Reliability Assessment of Microgrid-Integrated Electrical Distribution System. , 2022, , 958-977.		0
135	Bio-Economy. Impact of Meat Consumption on Health and Environmental Sustainability, 2019, , 1-20.	0.4	0
136	Reliability Assessment of Microgrid-Integrated Electrical Distribution System. Advances in Computer and Electrical Engineering Book Series, 2020, , 136-156.	0.2	0
137	Performance Evaluation of Second Order Generalized Integrator-Quadrature Algorithm for DSTATCOM in Non-ideal Grid. , 2020, , .		0
138	Bidirectional Quadratic Converter-Based PMBLDC Motor Drive for LEV Application. Journal of Electrical and Computer Engineering, 2022, 2022, 1-15.	0.6	0
139	Analyzing the Association between Pattern and Returns Using Goodmanâ€™Kruskal Prediction Error Reduction Index ($\hat{\rho}$). Complexity, 2022, 2022, 1-8.	0.9	0
140	Identification and classification of faults using Stockwell transform and decision rule. , 2022, , 439-455.		0
141	DC smart micro grid protection system. , 2022, , 427-437.		0
142	Optimal network reconfiguration of active distribution network. , 2022, , 329-342.		0
143	Electrical distribution network: Existing problems. , 2022, , 17-26.		0
144	Electrical distribution network: An introduction. , 2022, , 3-14.		0

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145	Performance Investigation of Innovative Induction Motor Strategy Using Magnet for Traction Application. International Transactions on Electrical Energy Systems, 2022, 2022, 1-15.	1.2	0
146	A Review of Grid Code Requirements for the Integration of Renewable Energy Sources in Ethiopia. Energies, 2022, 15, 5197.	1.6	0