Baseem Khan

List of Publications by Year
in descending order

146 papers	2,302 citations	218592 26 h-index	315616 38 g-index
167 all docs	167 docs citations	167 times ranked	925 citing authors

#	Article	IF	Citations
1	Determination of Power Transformers Health Index Using Parameters Affecting the Transformer's Life. IETE Journal of Research, 2023, 69, 8467-8488.	1.8	13
2	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
3	Energy Storage System and Its Power Electronic Interface. , 2022, , 183-195.		0
4	Issues Associated With Microgrid Integration. , 2022, , 1386-1397.		0
5	Reliability Assessment of Microgrid-Integrated Electrical Distribution System. , 2022, , 958-977.		0
6	Economic Operation of Smart Micro-Grid. , 2022, , 1213-1230.		4
7	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
8	Optimal integration of DSTATCOM using improved bacterial search algorithm for distribution network optimization. AEJ - Alexandria Engineering Journal, 2022, 61, 5539-5555.	3.4	16
9	Optimizing energy consumption patterns of smart home based on Sine Cosine Algorithm. IET Generation, Transmission and Distribution, 2022, 16, 984-999.	1.4	5
10	Line start synchronous reluctance motor with improved power factor for agriculture electric pump applications. Journal of Engineering, 2022, 2022, 295-310.	0.6	3
11	Imperative Role of Photovoltaic and Concentrating Solar Power Technologies towards Renewable Energy Generation. International Journal of Photoenergy, 2022, 2022, 1-13.	1.4	29
12	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
13	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
14	Performance Evaluation of a MW-Size Grid-Connected Solar Photovoltaic Plant Considering the Impact of Tilt Angle. Sustainability, 2022, 14, 1444.	1.6	6
15	Sub-synchronous interaction damping controller for a series-compensated DFIG-based wind farm. IET Renewable Power Generation, 2022, 16, 933-944.	1.7	7
16	Bidirectional Quadratic Converter-Based PMBLDC Motor Drive for LEV Application. Journal of Electrical and Computer Engineering, 2022, 2022, 1-15.	0.6	0
17	Analyzing the Association between Pattern and Returns Using Goodman–Kruskal Prediction Error Reduction Index (λ). Complexity, 2022, 2022, 1-8.	0.9	0
18	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

#	Article	IF	Citations
19	Identification and classification of faults using Stockwell transform and decision rule. , 2022, , 439-455.		0
20	Reactive power compensation for voltage variation mitigation in grid with renewable energy. , 2022, , 415-426.		2
21	DC smart micro grid protection system. , 2022, , 427-437.		0
22	Regenerative Braking in Electric Vehicle Using Quadratic Gain Bidirectional Converter. International Transactions on Electrical Energy Systems, 2022, 2022, 1-20.	1.2	4
23	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
24	Qualitative Analysis of Text Summarization Techniques and Its Applications in Health Domain. Computational Intelligence and Neuroscience, 2022, 2022, 1-14.	1.1	11
25	Voltage stability improvement of an Egyptian power grid-based wind energy system using STATCOM. Wind Energy, 2022, 25, 1077-1120.	1.9	7
26	An adaptive-neuro fuzzy inference system based-hybrid technique for performing load disaggregation for residential customers. Scientific Reports, 2022, 12, 2384.	1.6	10
27	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
28	An Adaptive Tunicate Swarm Algorithm for Optimization of Shallow Foundation. IEEE Access, 2022, 10, 39204-39219.	2.6	11
29	Comprehensive Review of KY Converter Topologies, Modulation and Control Approaches With Their Applications. IEEE Access, 2022, 10, 20978-20994.	2.6	1
30	Integration of Renewable Based Distributed Generation for Distribution Network Expansion Planning. Energies, 2022, 15, 1378.	1.6	15
31	Mitigating Generation Schedule Deviation of Wind Farm Using Battery Energy Storage System. Energies, 2022, 15, 1768.	1.6	7
32	Optimal Placement of Renewable Energy Generators Using Grid-Oriented Genetic Algorithm for Loss Reduction and Flexibility Improvement. Energies, 2022, 15, 1863.	1.6	8
33	Design and Implementation of a Novel Intelligent Strategy for the Permanent Magnet Synchronous Motor Emulation. Complexity, 2022, 2022, 1-15.	0.9	2
34	Optimal Service Restoration Scheme for Radial Distribution Network Using Teaching Learning Based Optimization. Energies, 2022, 15, 2505.	1.6	6
35	A Hybrid Signal Processing Technique for Recognition of Complex Power Quality Disturbances. Electric Power Systems Research, 2022, 207, 107865.	2.1	9
36	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

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37	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
38	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
39	Conducted electromagnetic emissions of compact fluorescent lamps and electronic ballast modeling. AIMS Electronics and Electrical Engineering, 2022, 6, 178-187.	0.8	4
40	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
41	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
42	Smart Healthcare: Disease Prediction Using the Cuckoo-Enabled Deep Classifier in IoT Framework. Scientific Programming, 2022, 2022, 1-11.	0.5	4
43	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
44	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
45	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
46	A review on short‐term load forecasting models for micro‐grid application. Journal of Engineering, 2022, 2022, 665-689.	0.6	11
47	Mitigation of Low-Frequency Oscillation in Power Systems through Optimal Design of Power System Stabilizer Employing ALO. Energies, 2022, 15, 3809.	1.6	13
48	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
49	KlugOculus: A Vision-Based Intelligent Architecture for Security System. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.1	2
50	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
51	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
52	Model Order Diminution of Discrete Interval Systems Using Kharitonov Polynomials. IEEE Access, 2022, 10, 66722-66733.	2.6	16
53	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
54	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

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55	Imperative Role of Technology Intervention and Implementation for Automation in the Construction Industry. Advances in Civil Engineering, 2022, 2022, 1-19.	0.4	12
56	Optimal network reconfiguration of active distribution network. , 2022, , 329-342.		0
57	Electrical distribution network: Existing problems. , 2022, , 17-26.		0
58	Electrical distribution network: An introduction. , 2022, , 3-14.		0
59	Design Aspects and Thermal Characteristics of Single-Sided Linear Induction Motor for Electromagnetic Launch Application. IEEE Access, 2022, 10, 72239-72252.	2.6	2
60	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
61	A Review of Grid Code Requirements for the Integration of Renewable Energy Sources in Ethiopia. Energies, 2022, 15, 5197.	1.6	0
62	Wavelet-Alienation-Neural-Based Protection Scheme for STATCOM Compensated Transmission Line. IEEE Transactions on Industrial Informatics, 2021, 17, 2557-2565.	7.2	31
63	Components of the smart-grid system. , 2021, , 385-397.		1
64	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
65	Securing Microgrid Optimal Energy Management Using Deep Generative Model. IEEE Access, 2021, 9, 63377-63387.	2.6	13
66	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
67	Implementation of APSO and Improved APSO on Non-Cascaded and Cascaded Short Term Hydrothermal Scheduling. IEEE Access, 2021, 9, 77784-77797.	2.6	14
68	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
69	IoT Inspired Intelligent Monitoring and Reporting Framework for Education 4.0. IEEE Access, 2021, 9, 131286-131305.	2.6	9
70	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
71	A Comprehensive Review of Microgrid Control Mechanism and Impact Assessment for Hybrid Renewable Energy Integration. IEEE Access, 2021, 9, 88942-88958.	2.6	59
72	Prefeasibility Economic and Sensitivity Assessment of Hybrid Renewable Energy System. IEEE Access, 2021, 9, 28260-28271.	2.6	45

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73	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
74	Advanced Reactive Power Compensation of Wind Power Plant Using PMU Data. IEEE Access, 2021, 9, 67006-67014.	2.6	5
75	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
76	Implementation of Optimization-Based PI Controller Tuning for Non-Ideal Differential Boost Inverter. IEEE Access, 2021, 9, 58677-58688.	2.6	7
77	Protection Scheme using Wavelet-Alienation-Neural Technique for UPFC Compensated Transmission Line. IEEE Access, 2021, 9, 13737-13753.	2.6	27
78	Voltage-Based Hybrid Algorithm Using Parameter Variations and Stockwell Transform for Islanding Detection in Utility Grids. Informatics, 2021, 8, 21.	2.4	6
79	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
80	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
81	A High-Reliability Redundancy Scheme for Design of Radiation-Tolerant Half-Duty Limited DC-DC Converters. Electronics (Switzerland), 2021, 10, 1146.	1.8	2
82	A multivariable transmission line protection scheme using signal processing techniques. IET Generation, Transmission and Distribution, 2021, 15, 3115-3137.	1.4	10
83	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
84	A comprehensive review on IoT‑based infrastructure for smart grid applications. IET Renewable Power Generation, 2021, 15, 3761-3776.	1.7	17
85	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
86	A protection scheme for distribution utility grid with wind energy penetration. Computers and Electrical Engineering, 2021, 94, 107324.	3.0	9
87	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
88	Optimal Power Flow Solution Based on Jellyfish Search Optimization Considering Uncertainty of Renewable Energy Sources. IEEE Access, 2021, 9, 100911-100933.	2.6	48
89	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
90	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

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91	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
92	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
93	Recognition of Complex Power Quality Disturbances Using S-Transform Based Ruled Decision Tree. IEEE Access, 2020, 8, 173530-173547.	2.6	40
94	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
95	Harmonics Mitigation in Industrial Sector by using Space Vector PWM and Shunt Active Power Filter. , 2020, , .		4
96	Assessment of power quality in the utility grid integrated with wind energy generation. IET Power Electronics, 2020, 13, 2917-2925.	1.5	49
97	A Voltage Based Technique Using Combined Features of Stockwell Transform and Hilbert Transform for Detection of Islanding Events. , 2020, , .		2
98	Combined Stockwell and Hilbert Transforms Based Technique for the Detection of Islanding Events in Hybrid Power System. , 2020, , .		4
99	Optimal expansion planning of distribution system using grid-based multi-objective harmony search algorithm. Computers and Electrical Engineering, 2020, 87, 106823.	3.0	28
100	Analyzing low voltage ride through capability of doubly fed induction generator based wind turbine. Computers and Electrical Engineering, 2020, 86, 106727.	3.0	22
101	An Algorithm for Recognition of Fault Conditions in the Utility Grid with Renewable Energy Penetration. Energies, 2020, 13, 2383.	1.6	36
102	Development of Stand-Alone Green Hybrid System for Rural Areas. Sustainability, 2020, 12, 3808.	1.6	9
103	A Protection Scheme for a Power System with Solar Energy Penetration. Applied Sciences (Switzerland), 2020, 10, 1516.	1.3	33
104	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
105	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
106	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
107	A Hybrid Algorithm for Recognition of Power Quality Disturbances. IEEE Access, 2020, 8, 229184-229200.	2.6	24
108	Impressions of remote area electrification on social and economic indicators. AIMS Energy, 2020, 8, 1045-1068.	1.1	1

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109	Reliability Assessment of Microgrid-Integrated Electrical Distribution System. Advances in Computer and Electrical Engineering Book Series, 2020, , 136-156.	0.2	0
110	Energy Storage System and Its Power Electronic Interface. Advances in Computer and Electrical Engineering Book Series, 2020, , 309-321.	0.2	1
111	Performance Evaluation of Second Order Generalized Integrator-Quadrature Algorithm for DSTATCOM in Non-ideal Grid. , 2020, , .		0
112	Energy-Aware Online Non-Clairvoyant Scheduling Using Speed Scaling with Arbitrary Power Function. Applied Sciences (Switzerland), 2019, 9, 1467.	1.3	26
113	A Novel Modular Radiation Hardening Approach Applied to a Synchronous Buck Converter. Electronics (Switzerland), 2019, 8, 513.	1.8	25
114	A holistic analysis of distribution system reliability assessment methods with conventional and renewable energy sources. AIMS Energy, 2019, 7, 413-429.	1.1	42
115	Issues Associated With Microgrid Integration. Advances in Computer and Electrical Engineering Book Series, 2019, , 252-264.	0.2	24
116	Economic Operation of Smart Micro-Grid. Advances in Computer and Electrical Engineering Book Series, 2019, , 330-346.	0.2	22
117	Bio-Economy. Impact of Meat Consumption on Health and Environmental Sustainability, 2019, , 1-20.	0.4	0
118	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
119	Hybrid Energy System for Upgrading the Rural Environment. , 2018, , .		27
120	Assessment and Enhancementof Distribution System Reliabilityby Renewable Energy Sourcesand Energy Storage. Journal of Green Engineering (discontinued), 2018, 8, 219-262.	0.7	44
121	Designing and modelling of grid connected photovoltaic system (case study: EEU Building at Hawassa) Tj ETQq1 1 0.784314 rgBT /Ov	0.2	32
122	Selecting a Meta-Heuristic Technique for Smart Micro-Grid Optimization Problem: A Comprehensive Analysis. IEEE Access, 2017, 5, 13951-13977.	2.6	131
123	Modeling and designing of stand-alone photovoltaic system: CaseStudy: Addis Boder health center south west Ethiopia. , 2017, , .		29
124	Optimal placement of phasor measurement unit for system observability: (Case study: Southern region) Tj ETQq0 0 0 rgBT /Overlock 10		25
125	Smart Microgrid Energy Management Using a Novel Artificial Shark Optimization. Complexity, 2017, 2017, 1-22.	0.9	52
126	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

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127	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
128	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
129	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
130	A PSO based approach for usage and cost allocation under contingent restructured market. , 2015, , .		1
131	Available transfer capability enhancement by unified power flow controller. , 2015, , .		21
132	A Shapley value approach for transmission usage cost allocation under contingent restructured market. , 2015, , .		5
133	Optimal transmission pricing with reliability indices. , 2014, , .		1
134	Transmission pricing scheme under contingency conditions in open access market. , 2014, , .		5
135	Transmission pricing using power flow tracing methodology with consideration N-1 security criterion. , 2014, , .		4
136	A TCSC incorporated power flow model for embedded transmission usage and loss allocation. , 2014, , .		0
137	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
138	A novel transmission loss allocation method based on transmission usage. , 2012, , .		28
139	The Current and Future States of Ethiopiaâ€™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
140	Game Theory Application in Smart Energy Logistics and Economy. , 0, , .		1
141	Microgrid Integration. , 0, , .		6
142	Capacityâ€based optimization using whale optimization technique of a power distribution network. Engineering Reports, 0, , e12455.	0.9	1
143	A Multipurpose Matrices Methodology for Transmission Usage, Loss and Reliability Margin Allocation in Restructured Environment. SSRN Electronic Journal, 0, , .	0.4	28
144	An experimental performance verification of continuous mixed Pâ€norm based adaptive asymmetrical fuzzy logic controller for single stage photovoltaic grid integration. IET Renewable Power Generation, 0, , .	1.7	4

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145	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
146	Development of DC Microgrid Integrated Electric Vehicle Charging Station With Fuzzy Logic Controller. Frontiers in Energy Research, 0, 10, .	1.2	5