

Dwarkadas Pralhaddas Kothari

List of Publications by Year in descending order

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109
papers

6,986
citations

117625

34
h-index

58581

82
g-index

109
all docs

109
docs citations

109
times ranked

4625
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of Three-Phase Improved Power Quality AC-DC Converters. IEEE Transactions on Industrial Electronics, 2004, 51, 641-660.	7.9	1,101
2	A review of single-phase improved power quality ac-dc converters. IEEE Transactions on Industrial Electronics, 2003, 50, 962-981.	7.9	1,060
3	Recent Philosophies of Automatic Generation Control Strategies in Power Systems. IEEE Transactions on Power Systems, 2005, 20, 346-357.	6.5	689
4	Load frequency control of a realistic power system with multi-source power generation. International Journal of Electrical Power and Energy Systems, 2012, 42, 426-433.	5.5	282
5	A novel integration technique for optimal network reconfiguration and distributed generation placement in power distribution networks. International Journal of Electrical Power and Energy Systems, 2014, 63, 461-472.	5.5	273
6	Bibliography on the application of induction generators in nonconventional energy systems. IEEE Transactions on Energy Conversion, 2003, 18, 433-439.	5.2	211
7	Congestion management in power systems – A review. International Journal of Electrical Power and Energy Systems, 2015, 70, 83-90.	5.5	179
8	Comprehensive Study of DSTATCOM Configurations. IEEE Transactions on Industrial Informatics, 2014, 10, 854-870.	11.3	167
9	On some of the design aspects of wind energy conversion systems. Energy Conversion and Management, 2002, 43, 2175-2187.	9.2	159
10	Performance Analysis of a Directly Coupled Photovoltaic Water-Pumping System. IEEE Transactions on Energy Conversion, 2004, 19, 613-618.	5.2	155
11	A solution to the unit commitment problem – a review. Frontiers in Energy, 2013, 7, 223-236.	2.3	148
12	LFC of an interconnected power system with multi-source power generation in deregulated power environment. International Journal of Electrical Power and Energy Systems, 2014, 57, 277-286.	5.5	138
13	Optimal location and sizing of capacitor placement in radial distribution system using Bacterial Foraging Optimization Algorithm. International Journal of Electrical Power and Energy Systems, 2015, 71, 383-390.	5.5	135
14	A T-Connected Transformer and Three-leg VSC Based DSTATCOM for Power Quality Improvement. IEEE Transactions on Power Electronics, 2008, 23, 2710-2718.	7.9	129
15	Utilization of a least square support vector machine (LSSVM) for slope stability analysis. Scientia Iranica, 2011, 18, 53-58.	0.4	113
16	A review on market power in deregulated electricity market. International Journal of Electrical Power and Energy Systems, 2013, 48, 139-147.	5.5	106
17	New control approach for capacitor supported DSTATCOM in three-phase four wire distribution system under non-ideal supply voltage conditions based on synchronous reference frame theory. International Journal of Electrical Power and Energy Systems, 2011, 33, 1109-1117.	5.5	89
18	Implementation of Neural-Network-Controlled Three-Leg VSC and a Transformer as Three-Phase Four-Wire DSTATCOM. IEEE Transactions on Industry Applications, 2011, 47, 1892-1901.	4.9	88

#	ARTICLE	IF	CITATIONS
19	Unit commitment problem solution using invasive weed optimization algorithm. International Journal of Electrical Power and Energy Systems, 2014, 55, 21-28.	5.5	82
20	Fuzzy logic based modeling and estimation of global solar energy using meteorological parameters. Energy, 2014, 70, 685-691.	8.8	69
21	Economic-emission load dispatch using binary successive approximation-based evolutionary search. IET Generation, Transmission and Distribution, 2009, 3, 1-16.	2.5	63
22	Multiobjective fixed head hydrothermal scheduling using integrated predator-prey optimization and Powell search method. Energy, 2012, 47, 237-252.	8.8	62
23	Solution to profit based unit commitment problem using particle swarm optimization. Applied Soft Computing Journal, 2010, 10, 1247-1256.	7.2	60
24	Comparison of AI techniques to solve combined economic emission dispatch problem with line flow constraints. International Journal of Electrical Power and Energy Systems, 2010, 32, 592-598.	5.5	60
25	Improved particle swarm optimization applied to reactive power reserve maximization. International Journal of Electrical Power and Energy Systems, 2010, 32, 368-374.	5.5	56
26	Effective utilization of unified power quality conditioner for interconnecting PV modules with grid using power angle control method. International Journal of Electrical Power and Energy Systems, 2013, 48, 131-138.	5.5	56
27	Synergic predator-prey optimization for economic thermal power dispatch problem. Applied Soft Computing Journal, 2016, 43, 298-311.	7.2	56
28	The surrogate worth trade-off approach for multiobjective thermal power dispatch problem. Electric Power Systems Research, 2000, 56, 103-110.	3.6	52
29	Multiobjective load dispatch by fuzzy logic based searching weightage pattern. Electric Power Systems Research, 2002, 63, 149-160.	3.6	47
30	Design and simulation of a solar-wind-biogas hybrid system architecture using HOMER in India. International Journal of Ambient Energy, 2016, 37, 184-191.	2.5	47
31	Generalized Neural Network Approach for Global Solar Energy Estimation in India. IEEE Transactions on Sustainable Energy, 2012, 3, 576-584.	8.8	41
32	A review on methods of finding losses and cooling methods to increase efficiency of electric machines. Ain Shams Engineering Journal, 2021, 12, 497-505.	6.1	38
33	Hybrid optimization implemented for distributed generation parameters in a power system network. International Journal of Electrical Power and Energy Systems, 2016, 78, 690-699.	5.5	36
34	Fuzzy satisfying stochastic multi-objective generation scheduling by weightage pattern search methods. Electric Power Systems Research, 2004, 69, 311-320.	3.6	35
35	Scheduling short-term hydrothermal generation using predator prey optimization technique. Applied Soft Computing Journal, 2014, 21, 298-308.	7.2	34
36	MATLAB/Simulink-Based Transient Stability Analysis of a Multimachine Power System. International Journal of Electrical Engineering and Education, 2002, 39, 320-336.	0.8	33

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37	Potential of Livestock Generated Biomass: Untapped Energy Source in India. <i>Energies</i> , 2017, 10, 847.	3.1	33
38	A technique for load-shedding based on voltage stability consideration. <i>International Journal of Electrical Power and Energy Systems</i> , 2005, 27, 506-517.	5.5	31
39	Effective grid interfaced renewable sources with power quality improvement using dynamic active power filter. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 82, 150-160.	5.5	31
40	A Novel Mathematical Modelling of Induction Generator for Reactive Power Control of Isolated Hybrid Power Systems. <i>International Journal of Modelling and Simulation</i> , 2004, 24, 1-7.	3.3	29
41	An optimizing pipeline stall reduction algorithm for power and performance on multi-core CPUs. <i>Human-centric Computing and Information Sciences</i> , 2015, 5, .	6.1	29
42	Fuzzy decision making in multiobjective long-term scheduling of hydrothermal system. <i>International Journal of Electrical Power and Energy Systems</i> , 2001, 23, 19-29.	5.5	27
43	Integration of Distributed Energy Resources. <i>Research Journal of Applied Sciences, Engineering and Technology</i> , 2014, 7, 91-96.	0.1	26
44	Simulation of Sensor Fault Diagnosis for Wind Turbine Generators DFIG and PMSM Using Kalman Filter. <i>Energy Procedia</i> , 2014, 54, 494-505.	1.8	25
45	A solution to unit commitment problem using fire works algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 77, 221-227.	5.5	25
46	Weight pattern evaluation for multiobjective hydrothermal generation scheduling using hybrid search technique. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 62, 665-678.	5.5	24
47	Early Development of Modern Vertical and Horizontal Axis Wind Turbines: A Review. <i>Wind Engineering</i> , 2005, 29, 287-299.	1.9	23
48	Crisscross differential evolution algorithm for constrained hydrothermal scheduling. <i>Applied Soft Computing Journal</i> , 2020, 93, 106393.	7.2	22
49	Vertical Axis Wind Rotor with Concentration by Convergent Nozzles. <i>Wind Engineering</i> , 2003, 27, 555-959.	1.9	21
50	Air concentrating nozzles: a promising option for wind turbines. <i>International Journal of Energy Technology and Policy</i> , 2005, 3, 394.	0.2	21
51	Determination of probabilistic risk of voltage collapse using radial basis function (RBF) network. <i>Electric Power Systems Research</i> , 2006, 76, 426-434.	3.6	21
52	Fuzzy satisfying multi-objective generation scheduling based on simplex weightage pattern search. <i>International Journal of Electrical Power and Energy Systems</i> , 2005, 27, 518-527.	5.5	19
53	Line switching for alleviating overloads under line outage condition taking bus voltage limits into account. <i>International Journal of Electrical Power and Energy Systems</i> , 2000, 22, 213-221.	5.5	18
54	Corrective rescheduling for static voltage stability control. <i>International Journal of Electrical Power and Energy Systems</i> , 2005, 27, 3-12.	5.5	17

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55	An analytical study of resource division and its impact on power and performance of multi-core processors. <i>Journal of Supercomputing</i> , 2014, 68, 1265-1279.	3.6	17
56	Loadability margin enhancement using co-ordinated aggregation based particle swarm optimization (CAPSO). <i>International Journal of Electrical Power and Energy Systems</i> , 2010, 32, 975-984.	5.5	16
57	Approach of hybrid PBIL control in distributed generation parameters for IEEE and real time Indian utility system. <i>IET Renewable Power Generation</i> , 2017, 11, 255-263.	3.1	16
58	Indian Scenario of Wind Energy: Problems and Solutions. <i>Energy Sources Part A Recovery, Utilization, and Environmental Effects</i> , 2004, 26, 811-819.	0.5	15
59	Multiobjective thermal power load dispatch using adaptive predator-prey optimization. <i>Applied Soft Computing Journal</i> , 2018, 66, 370-383.	7.2	15
60	Loss Optimization for Voltage Stability Enhancement Incorporating UPFC Using Particle Swarm Optimization. <i>Journal of Electrical Engineering and Technology</i> , 2009, 4, 492-498.	2.0	15
61	Real coded genetic algorithm for stochastic hydrothermal generation scheduling. <i>Journal of Systems Science and Systems Engineering</i> , 2011, 20, 87-109.	1.6	14
62	Mitigation of SSR by Subsynchronous Current Injection with VSC HVDC. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 57, 287-297.	5.5	14
63	Particle swarm optimization for determining shortest distance to voltage collapse. <i>International Journal of Electrical Power and Energy Systems</i> , 2007, 29, 796-802.	5.5	13
64	Analysis of subsynchronous resonance with generalized unified power flow controller. <i>International Journal of Electrical Power and Energy Systems</i> , 2013, 53, 623-631.	5.5	13
65	Modelling and Simulation of Power Factor Corrected AC-DC Converters. <i>International Journal of Electrical Engineering and Education</i> , 2004, 41, 244-264.	0.8	12
66	A Transient Stability Tool Combining the SIME Method with MATLAB and SIMULINK. <i>International Journal of Electrical Engineering and Education</i> , 2006, 43, 119-133.	0.8	12
67	Probabilistic assessment and preventive control of voltage security margins using artificial neural network. <i>International Journal of Electrical Power and Energy Systems</i> , 2007, 29, 99-105.	5.5	12
68	An AI based Governing Technique for Automatic Control of Small Hydro Power Plants. <i>IETE Journal of Research</i> , 2007, 53, 119-126.	2.6	11
69	Star/Hexagon Transformer Based Three-Phase Four-Wire DSTATCOM for Power Quality Improvement. <i>International Journal of Emerging Electric Power Systems</i> , 2008, 9, .	0.8	11
70	A Multivariate Adaptive Regression Spline Approach for Prediction of Maximum Shear Modulus and Minimum Damping Ratio. <i>Engineering Journal</i> , 2012, 16, 69-78.	1.0	11
71	New Horizons for Offshore Wind Energy: Shifting Paradigms and Challenges. <i>Energy Sources Part A Recovery, Utilization, and Environmental Effects</i> , 2005, 27, 349-360.	0.5	10
72	A novel technique proposed for automatic control of small hydro power plants. <i>International Journal of Global Energy Issues</i> , 2005, 24, 29.	0.4	10

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73	Reliability enhancement of a radial distribution system using coordinated aggregation based particle swarm optimization considering customer and energy based indices. Applied Soft Computing Journal, 2012, 12, 3325-3331.	7.2	10
74	Non-interactive approach to solve multi-objective thermal power dispatch problem using composite search algorithm. Applied Soft Computing Journal, 2018, 65, 644-658.	7.2	10
75	Multi-objective thermal power load dispatch using chaotic differential evolutionary algorithm and Powell's method. Soft Computing, 2018, 22, 2159-2174.	3.6	10
76	A Genetic Algorithm Based Multi Objective Service Restoration in Distribution Systems. Journal of Computer Science, 2011, 7, 448-453.	0.6	9
77	Surrogate worth trade-off method for multi-objective thermal power load dispatch. Energy, 2017, 138, 1112-1123.	8.8	9
78	IoT Based Approach in a Power System Network for Optimizing Distributed Generation Parameters. CMES - Computer Modeling in Engineering and Sciences, 2019, 119, 541-558.	1.1	9
79	Reactive power control of wind-diesel-micro-hydro hybrid power systems using matlab/simulink. International Journal of Global Energy Issues, 2005, 24, 86.	0.4	7
80	Line outage ranking for voltage limit violations with corrective rescheduling avoiding masking. International Journal of Electrical Power and Energy Systems, 2001, 23, 837-846.	5.5	6
81	A modified approach to transient stability enhancement with fast valving and braking resistor applications. International Journal of Electrical Power and Energy Systems, 2006, 28, 729-738.	5.5	6
82	Studies on the impact of capacitor bank switching on grid connected transformers. International Journal of Electrical Power and Energy Systems, 2012, 43, 126-130.	5.5	6
83	Control systems for small hydropower plants: a review. International Journal of Energy Technology and Policy, 2007, 5, 97.	0.2	5
84	Distribution system adequacy assessment accounting customer controlled generator sets. International Journal of Electrical Power and Energy Systems, 2011, 33, 1161-1164.	5.5	5
85	Impact of FACTS devices on exercising market power in deregulated electricity market. Frontiers in Energy, 2013, 7, 448-455.	2.3	5
86	Unit commitment using dynamic programming-an exhaustive working of both classical and stochastic approach. Frontiers in Energy, 2013, 7, 333-341.	2.3	5
87	Interconnected Distribution Networks for Climate Change Abatement. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 240-250.	0.1	5
88	A comparative simulation study on the power performance of multi-core architecture. Journal of Supercomputing, 2014, 70, 465-487.	3.6	5
89	A Single Phase Grid Connected PV System working in Different Modes. Engineering, Technology & Applied Science Research, 2020, 10, 6374-6379.	1.9	5
90	An efficient approach for voltage security analysis and enhancement. International Journal of Electrical Power and Energy Systems, 2000, 22, 483-486.	5.5	4

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91	Discussion of "Assessment of voltage unbalance" [and closure]. IEEE Transactions on Power Delivery, 2002, 17, 1176-1177.	4.3	4
92	Closure on "Bibliography on the Application of Induction Generators in Nonconventional Energy Systems". IEEE Transactions on Energy Conversion, 2004, 19, 650-651.	5.2	4
93	An approach to mitigate the risk of voltage collapse accounting uncertainties using improved particle swarm optimization. Applied Soft Computing Journal, 2009, 9, 1197-1207.	7.2	4
94	A Comparative Analysis for Selection of Appropriate Mother Wavelet for Detection of Stationary Disturbances. Journal of the Institution of Engineers (India): Series B, 2017, 98, 533-540.	1.9	4
95	An efficient approach for contingency ranking based on voltage stability. International Journal of Electrical Power and Energy Systems, 2004, 26, 143-149.	5.5	3
96	Sliding Mode Control of PFC Converter. IETE Journal of Research, 2005, 51, 371-377.	2.6	3
97	A Novel Modelling Technique for Automatic Load Frequency Control of Small Hydro Power Plants. International Journal of Modelling and Simulation, 2007, 27, 186-192.	3.3	3
98	A solution to unit commitment problem using invasive weed optimization algorithm. Frontiers in Energy, 2013, 7, 487-494.	2.3	3
99	Renewable Energy Technologies for Cooking: Transforming Rural Lives. IEEE Technology and Society Magazine, 2013, 32, 65-72.	0.8	3
100	Star-hexagon transformer and non-isolated three-leg VSC based three-phase four-wire DSTATCOM. International Journal of Power and Energy Conversion, 2009, 1, 198.	0.3	2
101	Discussion and closure of "Bibliography on the application of probability methods in power system reliability evaluation". IEEE Transactions on Power Systems, 2002, 17, 924.	6.5	2
102	Power quality issues and power electronics. International Journal of Energy Technology and Policy, 2006, 4, 4.	0.2	1
103	Transient stability improvement of power system using fuzzy operated steam diversion valve. International Journal of Power and Energy Conversion, 2010, 2, 191.	0.3	1
104	A Novel Regulation Band Approach for Fast Voltage Regulation in Single-Phase PFC Converters. IETE Journal of Research, 2003, 49, 445-451.	2.6	0
105	Ready reserve power determination using artificial neural network. International Journal of Electrical Power and Energy Systems, 2004, 26, 473-477.	5.5	0
106	The power coefficient of windmills in ideal conditions. International Journal of Global Energy Issues, 2004, 21, 236.	0.4	0
107	Comparative Analysis of Solution Methods to Power Electronic Interface Modeling for Renewable Energy Applications. Advanced Materials Research, 0, 768, 9-15.	0.3	0
108	Current developments in renewable energy resources-based hybrid energy system: a review. International Journal of Energy Technology and Policy, 2016, 12, 333.	0.2	0

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109	Implementation of Optogenetics Technique for Neuron Photostimulation: A Physical Approach. , 2019, , 311-324.		0