

Professor S P Singh

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

1,191
citations

16
h-index

31
g-index

110
ext. papers

1,593
ext. citations

2.9
avg, IF

5.14
L-index

#	Paper	IF	Citations
93	Optimal Rescheduling of Generators for Congestion Management Based on Particle Swarm Optimization. <i>IEEE Transactions on Power Systems</i> , 2008 , 23, 1560-1569	7	187
92	Optimal Sizing of Distributed Generation Placed on Radial Distribution Systems. <i>Electric Power Components and Systems</i> , 2010 , 38, 260-274	1	135
91	Optimal allocation of capacitors in distribution systems using particle swarm optimization. <i>International Journal of Electrical Power and Energy Systems</i> , 2012 , 43, 1267-1275	5.1	91
90	A heuristic method for feeder reconfiguration and service restoration in distribution networks. <i>International Journal of Electrical Power and Energy Systems</i> , 2009 , 31, 309-314	5.1	53
89	Optimal power flow in the presence of wind power using modified cuckoo search. <i>IET Generation, Transmission and Distribution</i> , 2015 , 9, 615-626	2.5	37
88	Capacitors Required for Maximum Power of a Self-Excited Single-Phase Induction Generator Using a Three-Phase Machine. <i>IEEE Transactions on Energy Conversion</i> , 2008 , 23, 372-381	5.4	36
87	Transmission line fault detection and location using Wide Area Measurements. <i>Electric Power Systems Research</i> , 2017 , 151, 96-105	3.5	31
86	Application of radial basis function neural network for differential relaying of a power transformer. <i>Computers and Electrical Engineering</i> , 2003 , 29, 421-434	4.3	30
85	Congestion mitigation using UPFC. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2433-2442	2.5	28
84	Optimal Placement of DG in Distribution Network for Power Loss Minimization Using NLP & PLS Technique. <i>Energy Procedia</i> , 2016 , 90, 441-454	2.3	24
83	A Novel Constraints Reduction-Based Optimal Relay Coordination Method Considering Variable Operational Status of Distribution System With DGs. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 889-898	10.7	24
82	Energy saving estimation in distribution network with smart grid-enabled CVR and solar PV inverter. <i>IET Generation, Transmission and Distribution</i> , 2018 , 12, 1346-1358	2.5	23
81	Digital Signal Processor Based Shunt Active Filter Controller for Customer-generated Harmonics and Reactive Power Compensation. <i>Electric Power Components and Systems</i> , 2010 , 38, 937-959	1	23
80	A Digital Signal Processor Based Performance Evaluation of Three-phase Four-wire Shunt Active Filter for Harmonic Elimination, Reactive Power Compensation, and Balancing of Non-linear Loads under Non-ideal Mains Voltages. <i>Electric Power Components and Systems</i> , 2012 , 40, 1119-1148	1	22
79	Time Horizon-Based Model Predictive Volt/VAR Optimization for Smart Grid Enabled CVR in the Presence of Electric Vehicle Charging Loads. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 5502-5513	4.3	21
78	ANN-Based Protection Scheme for Power Transformer. <i>Electric Power Components and Systems</i> , 2000 , 28, 875-884		17
77	Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. <i>IEEE Systems Journal</i> , 2020 , 14, 995-1006	4.3	16

76	Optimal cost wide area measurement system incorporating communication infrastructure. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2814-2821	2.5	15
75	A Multi-objective PMU Placement Method in Power System via Binary Gravitational Search Algorithm. <i>Electric Power Components and Systems</i> , 2017 , 45, 1832-1845	1	15
74	Harmonics estimation and modeling of residential and commercial loads 2009 ,		14
73	Fuzzy logic controlled shunt active power filter for reactive power compensation and harmonic elimination 2011 ,		13
72	Efficient ANN method for post-contingency status evaluation. <i>International Journal of Electrical Power and Energy Systems</i> , 2010 , 32, 54-62	5.1	13
71	A Fast Power Flow Solution of Radial Distribution Networks. <i>Electric Power Components and Systems</i> , 2002 , 30, 1065-1074	1	13
70	Analytic hierarchy process based approximation of high-order continuous systems using TLBO algorithm. <i>International Journal of Dynamics and Control</i> , 2019 , 7, 53-60	1.7	12
69	Multistage Multiobjective Volt/VAR Control for Smart Grid-Enabled CVR With Solar PV Penetration. <i>IEEE Systems Journal</i> , 2021 , 15, 2767-2778	4.3	12
68	Centralized and decentralized optimal decision support for congestion management. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 64, 250-259	5.1	11
67	Optimal coordination of PV smart inverter and traditional volt-VAR control devices for energy cost savings and voltage regulation. <i>International Transactions on Electrical Energy Systems</i> , 2019 , 29, e12042	2.2	11
66	Digital Signal Processor Based Fuzzy Voltage and Frequency Regulator for Self-excited Induction Generator. <i>Electric Power Components and Systems</i> , 2010 , 38, 309-324	1	11
65	Digital Signal Processor-based Controller Design and Implementation for Self-excited Induction Generator. <i>Electric Power Components and Systems</i> , 2008 , 36, 1130-1140	1	10
64	Small hydro power plant identification using NNARX structure. <i>Neural Computing and Applications</i> , 2005 , 14, 212-222	4.8	10
63	New Load Controller for Single-phase Self-excited Induction Generator. <i>Electric Power Components and Systems</i> , 2009 , 37, 658-671	1	9
62	Design and implementation of induction generator controller for single phase self excited induction generator 2008 ,		9
61	Sensitivity based expert system for voltage control in power system. <i>International Journal of Electrical Power and Energy Systems</i> , 1993 , 15, 131-136	5.1	9
60	Energy savings in distribution network with smart grid-enabled CVR and distributed generation 2016 ,		9
59	Self Organization and Learning Methods in Short Term Electric Load Forecasting: A Review. <i>Electric Power Components and Systems</i> , 2002 , 30, 1075-1089	1	8

58	Protection and Conditions Monitoring of Power Transformer Using ANN. <i>Electric Power Components and Systems</i> , 2002 , 30, 217-231	1	8
57	Social welfare maximization for congestion management in multiutility market using improved PSO incorporating transmission loss cost allocation. <i>International Transactions on Electrical Energy Systems</i> , 2018 , 28, e2593	2.2	8
56	Neural network based shunt active filter for harmonic and reactive power compensation under non-ideal mains voltage 2010 ,		7
55	Nonlinear predictive control for a NNARX hydro plant model. <i>Neural Computing and Applications</i> , 2007 , 16, 101-108	4.8	7
54	Selection of Optimal Capacitors for Maximum Power Output of a Single-phase Self-excited Induction Generator Using a Three-phase Machine. <i>Electric Power Components and Systems</i> , 2007 , 35, 857-870	1	7
53	Multistage Coordination Volt/VAR Control With CVR in Active Distribution Network in Presence of Inverter-Based DG Units and Soft Open Points. <i>IEEE Transactions on Industry Applications</i> , 2021 , 57, 2035-2047	4.3	7
52	Energy regulation of EV using MILP for optimal operation of incentive based prosumer microgrid with uncertainty modelling. <i>International Journal of Electrical Power and Energy Systems</i> , 2022 , 134, 107353	5.1	7
51	Single-phase single-stage grid-interactive photovoltaic system with active filter functions 2010 ,		6
50	Coupled inductor bidirectional DC-DC converter for improved performance 2010 ,		6
49	Event-Driven Predictive Approach for Real-Time Volt/VAR Control With CVR in Solar PV Rich Active Distribution Network. <i>IEEE Transactions on Power Systems</i> , 2021 , 36, 3849-3864	7	6
48	PIL based control algorithm for three-phase four-wire active filter for reactive and harmonic compensation under distorted supply 2010 ,		5
47	Grid interconnection of distributed generation system with power quality improvement features 2011 ,		5
46	Simulation of reduced order hydro turbine models to study its hydraulic transient characteristics 2005 ,		5
45	Reduction of energy demand via conservation voltage reduction considering network reconfiguration and soft open point. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12147	2.2	5
44	A Robust Protection Scheme Based on Hybrid Pick-Up and Optimal Hierarchy Selection of Relays in the Variable DGs-Distribution System. <i>IEEE Transactions on Power Delivery</i> , 2020 , 35, 150-159	4.3	5
43	Estimation of ATC using PS-NR 2017 ,		4
42	A new adaptive inverse-time protection scheme for modern distribution systems with distributed generation 2017 ,		4
41	Characteristic study, its identification and self-tuned approach to control hydro-power plants. <i>International Journal of Sustainable Energy</i> , 2013 , 32, 599-630	2.7	4

40	Neural network based active power filter for power quality improvement 2010 ,		4
39	Transient performance of a three-phase self-excited induction generator supplying single phase load with Electronic Load Controller 2010 ,		4
38	Steady-State Security Analysis Using Artificial Neural Network. <i>Electric Power Components and Systems</i> , 2004 , 32, 1063-1081	1	4
37	Energy efficiency and peak load management via CVR and distributed energy storage in active distribution grid. <i>International Transactions on Electrical Energy Systems</i> , 2020 , 30, e12224	2.2	4
36	Pseudo PMU for quasi-static analysis of power system 2016 ,		4
35	Optimal relay coordination for grid connected variable size DG 2016 ,		4
34	Aggregated Effect of Active Distribution System on Available Transfer Capability Using Multi-Agent System Based ITD Framework. <i>IEEE Systems Journal</i> , 2021 , 15, 1401-1412	4.3	4
33	DSP based control algorithm for three-phase four-wire shunt active filter without load and filter current measurement 2010 ,		3
32	Coordinated Allocation of BESS and SOP in High PV Penetrated Distribution Network Incorporating DR and CVR Schemes. <i>IEEE Systems Journal</i> , 2020 , 1-11	4.3	3
31	ATC assessment and enhancement of integrated transmission and distribution system considering the impact of active distribution network. <i>IET Renewable Power Generation</i> , 2020 , 14, 1571-1583	2.9	3
30	Capacitor allocation in radial distribution system for maximal energy savings 2016 ,		3
29	Assessment of Ocean Wave Energy Converters for Indian Coastal Region. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2020 , 37, 476-488	1.5	3
28	Optimal Rescheduling of Generators for Congestion Management and Benefit Maximization in a Decentralized Bilateral Multi-transactions Power Network. <i>International Journal of Emerging Electric Power Systems</i> , 2013 , 14, 25-32	1.4	2
27	Intelligent technique for improved transient and dynamic response of bidirectional DC-DC converter 2010 ,		2
26	A novel voltage clamped CI-BDC converter and its control for battery storage applications 2010 ,		2
25	Modelling and stability analysis of coupled inductor bidirectional DC-DC converter 2010 ,		2
24	Analysis of Transient Behavior of a Single-Phase Self-Regulated Self-Excited Induction Generator using a Three-Phase Machine 2006 ,		2
23	Numerical Taxonomy Method for STLF. <i>Electric Power Components and Systems</i> , 2002 , 30, 443-456	1	2

22	Methodology for alleviation of voltage excursions in large power systems. <i>International Journal of Electrical Power and Energy Systems</i> , 1996 , 18, 167-173	5.1	2
21	Prosumer Energy Management For Optimal Utilization of Bid Fulfillment with EV Uncertainty Modeling. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	2
20	Real-time estimation of ATC using PMU data and ANN. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 3604-3616	2.5	2
19	A smart volt-var optimization engine for energy distribution system 2016 ,		2
18	Integrated Operation of Conservation Voltage Reduction and Network Reconfiguration in PV-Rich Distribution Network considering Soft Open Point Impact 2019 ,		2
17	Optimal Strategy for ATC Enhancement and Assessment in presence of FACTS devices and Renewable Generation 2018 ,		2
16	A Novel Multi-Objective PMU Placement Method for Power System State Estimation 2018 ,		2
15	Performance investigation of the shunt active power filter using neural network 2014 ,		1
14	Design and analysis of photovoltaic-fuel cell hybrid distributed generation system 2013 ,		1
13	Planning a comprehensive protection scheme considering distributed generation 2017 ,		1
12	Optimal power flow with benefit maximisation in coordinated bilateral power market. <i>International Journal of Power and Energy Conversion</i> , 2013 , 4, 268	0.4	1
11	PLL less shunt active filter with direct current control for power quality conditioning 2010 ,		1
10	A Fast Acting 1/z Controller for Shunt Active Filter Operation for Harmonics and Reactive Power Compensation 2008 ,		1
9	Transient Analysis of a Single-Phase Self-Excited Induction Generator using a Three-Phase Machine feeding Dynamic Load 2006 ,		1
8	Passive method for islanding detection using variational mode decomposition. <i>IET Renewable Power Generation</i> , 2020 , 14, 3782-3791	2.9	1
7	Optimal capacitor placement in RDS using combined fuzzy & novel power loss sensitivity method 2016 ,		1
6	Impact of Combined Operation of CVR and Energy Storage System in Distribution Grid 2018 ,		1
5	Multi-objective Stochastic Volt/VAR Optimization in AC-DC Hybrid Distribution Network Considering Soft Open Point. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 295-308	0.2	1

- 4 A UNIFIED APPROACH TO OPTIMAL POWER FLOW SOLUTIONS USING GRG. *Electric Power Components and Systems*, **1991**, 19, 103-114
- 3 IMPROVEMENTS IN RECTANGULAR FORM OF FDLF FOR NETWORKS WITH SPECIAL FEATURES. *Electric Power Components and Systems*, **1991**, 19, 577-598
- 2 A Comprehensive Comparative Economic Analysis of ACO and CS Technique for Optimal Operation of Stand-alone HES. *Lecture Notes in Electrical Engineering*, **2020**, 549-564 0.2
- 1 Role of Energy Storage System in Integration of Renewable Energy Technologies in Active Distribution Network **2021**, 243-279