

Professor S P Singh

List of Publications by Year in Descending Order

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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	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
92	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
91	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
90	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
89	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
88	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
87	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
86	Role of Energy Storage System in Integration of Renewable Energy Technologies in Active Distribution Network 2021 , 243-279		
85	A Comprehensive Comparative Economic Analysis of ACO and CS Technique for Optimal Operation of Stand-alone HES. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 549-564	0.2	
84	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
83	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
82	Passive method for islanding detection using variational mode decomposition. <i>IET Renewable Power Generation</i> , 2020 , 14, 3782-3791	2.9	1
81	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
80	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
79	Real-time estimation of ATC using PMU data and ANN. <i>IET Generation, Transmission and Distribution</i> , 2020 , 14, 3604-3616	2.5	2
78	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
77	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

76	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
75	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
74	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
73	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
72	Integrated Operation of Conservation Voltage Reduction and Network Reconfiguration in PV-Rich Distribution Network considering Soft Open Point Impact 2019 ,		2
71	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
70	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
69	Optimal Strategy for ATC Enhancement and Assessment in presence of FACTS devices and Renewable Generation 2018 ,		2
68	Impact of Combined Operation of CVR and Energy Storage System in Distribution Grid 2018 ,		1
67	A Novel Multi-Objective PMU Placement Method for Power System State Estimation 2018 ,		2
66	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
65	Transmission line fault detection and location using Wide Area Measurements. <i>Electric Power Systems Research</i> , 2017 , 151, 96-105	3.5	31
64	Estimation of ATC using PS-NR 2017 ,		4
63	A new adaptive inverse-time protection scheme for modern distribution systems with distributed generation 2017 ,		4
62	Optimal cost wide area measurement system incorporating communication infrastructure. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 2814-2821	2.5	15
61	Planning a comprehensive protection scheme considering distributed generation 2017 ,		1
60	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
59	Congestion mitigation using UPFC. <i>IET Generation, Transmission and Distribution</i> , 2016 , 10, 2433-2442	2.5	28

58	Capacitor allocation in radial distribution system for maximal energy savings 2016,		3
57	Energy savings in distribution network with smart grid-enabled CVR and distributed generation 2016,		9
56	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
55	Pseudo PMU for quasi-static analysis of power system 2016,		4
54	Optimal capacitor placement in RDS using combined fuzzy & novel power loss sensitivity method 2016,		1
53	Optimal relay coordination for grid connected variable size DG 2016,		4
52	A smart volt-var optimization engine for energy distribution system 2016,		2
51	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
50	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
49	Performance investigation of the shunt active power filter using neural network 2014,		1
48	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
47	Design and analysis of photovoltaic-fuel cell hybrid distributed generation system 2013,		1
46	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
45	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
44	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
43	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
42	Fuzzy logic controlled shunt active power filter for reactive power compensation and harmonic elimination 2011,		13
41	Grid interconnection of distributed generation system with power quality improvement features 2011,		5

40	PIL based control algorithm for three-phase four-wire active filter for reactive and harmonic compensation under distorted supply 2010 ,		5
39	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
38	Single-phase single-stage grid-interactive photovoltaic system with active filter functions 2010 ,		6
37	Neural network based active power filter for power quality improvement 2010 ,		4
36	Neural network based shunt active filter for harmonic and reactive power compensation under non-ideal mains voltage 2010 ,		7
35	PLL less shunt active filter with direct current control for power quality conditioning 2010 ,		1
34	Optimal Sizing of Distributed Generation Placed on Radial Distribution Systems. <i>Electric Power Components and Systems</i> , 2010 , 38, 260-274	1	135
33	Coupled inductor bidirectional DC-DC converter for improved performance 2010 ,		6
32	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
31	Transient performance of a three-phase self-excited induction generator supplying single phase load with Electronic Load Controller 2010 ,		4
30	Intelligent technique for improved transient and dynamic response of bidirectional DC-DC converter 2010 ,		2
29	DSP based control algorithm for three-phase four-wire shunt active filter without load and filter current measurement 2010 ,		3
28	A novel voltage clamped CI-BDC converter and its control for battery storage applications 2010 ,		2
27	Modelling and stability analysis of coupled inductor bidirectional DC-DC converter 2010 ,		2
26	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
25	New Load Controller for Single-phase Self-excited Induction Generator. <i>Electric Power Components and Systems</i> , 2009 , 37, 658-671	1	9
24	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
23	Harmonics estimation and modeling of residential and commercial loads 2009 ,		14

22	Design and implementation of induction generator controller for single phase self excited induction generator 2008 ,		9
21	A Fast Acting 1/z Controller for Shunt Active Filter Operation for Harmonics and Reactive Power Compensation 2008 ,		1
20	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
19	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
18	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
17	Nonlinear predictive control for a NNARX hydro plant model. <i>Neural Computing and Applications</i> , 2007 , 16, 101-108	4.8	7
16	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
15	Transient Analysis of a Single-Phase Self-Excited Induction Generator using a Three-Phase Machine feeding Dynamic Load 2006 ,		1
14	Analysis of Transient Behavior of a Single-Phase Self-Regulated Self-Excited Induction Generator using a Three-Phase Machine 2006 ,		2
13	Simulation of reduced order hydro turbine models to study its hydraulic transient characteristics 2005 ,		5
12	Small hydro power plant identification using NNARX structure. <i>Neural Computing and Applications</i> , 2005 , 14, 212-222	4.8	10
11	Steady-State Security Analysis Using Artificial Neural Network. <i>Electric Power Components and Systems</i> , 2004 , 32, 1063-1081	1	4
10	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
9	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
8	Numerical Taxonomy Method for STLF. <i>Electric Power Components and Systems</i> , 2002 , 30, 443-456	1	2
7	Protection and Conditions Monitoring of Power Transformer Using ANN. <i>Electric Power Components and Systems</i> , 2002 , 30, 217-231	1	8
6	A Fast Power Flow Solution of Radial Distribution Networks. <i>Electric Power Components and Systems</i> , 2002 , 30, 1065-1074	1	13
5	ANN-Based Protection Scheme for Power Transformer. <i>Electric Power Components and Systems</i> , 2000 , 28, 875-884		17

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| 4 | 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 |
| 3 | 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 |
| 2 | A UNIFIED APPROACH TO OPTIMAL POWER FLOW SOLUTIONS USING GRG. <i>Electric Power Components and Systems</i> , 1991 , 19, 103-114 | | |
| 1 | IMPROVEMENTS IN RECTANGULAR FORM OF FDLF FOR NETWORKS WITH SPECIAL FEATURES. <i>Electric Power Components and Systems</i> , 1991 , 19, 577-598 | | |