

Professor S P Singh

List of Publications by Year in descending order

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107
papers

1,953
citations

279487

23
h-index

288905

40
g-index

110
all docs

110
docs citations

110
times ranked

1407
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal Rescheduling of Generators for Congestion Management Based on Particle Swarm Optimization. IEEE Transactions on Power Systems, 2008, 23, 1560-1569.	4.6	269
2	Optimal Sizing of Distributed Generation Placed on Radial Distribution Systems. Electric Power Components and Systems, 2010, 38, 260-274.	1.0	175
3	Optimal allocation of capacitors in distribution systems using particle swarm optimization. International Journal of Electrical Power and Energy Systems, 2012, 43, 1267-1275.	3.3	113
4	A heuristic method for feeder reconfiguration and service restoration in distribution networks. International Journal of Electrical Power and Energy Systems, 2009, 31, 309-314.	3.3	74
5	Capacitors Required for Maximum Power of a Self-Excited Single-Phase Induction Generator Using a Three-Phase Machine. IEEE Transactions on Energy Conversion, 2008, 23, 372-381.	3.7	62
6	Time Horizon-Based Model Predictive Volt/VAR Optimization for Smart Grid Enabled CVR in the Presence of Electric Vehicle Charging Loads. IEEE Transactions on Industry Applications, 2019, 55, 5502-5513.	3.3	58
7	Optimal power flow in the presence of wind power using modified cuckoo search. IET Generation, Transmission and Distribution, 2015, 9, 615-626.	1.4	52
8	A Novel Constraints Reduction-Based Optimal Relay Coordination Method Considering Variable Operational Status of Distribution System With DGs. IEEE Transactions on Smart Grid, 2019, 10, 889-898.	6.2	52
9	Transmission line fault detection and location using Wide Area Measurements. Electric Power Systems Research, 2017, 151, 96-105.	2.1	46
10	Application of radial basis function neural network for differential relaying of a power transformer. Computers and Electrical Engineering, 2003, 29, 421-434.	3.0	44
11	Congestion mitigation using UPFC. IET Generation, Transmission and Distribution, 2016, 10, 2433-2442.	1.4	43
12	Combined Impact of Network Reconfiguration and Volt-VAR Control Devices on Energy Savings in the Presence of Distributed Generation. IEEE Systems Journal, 2020, 14, 995-1006.	2.9	39
13	Optimal Placement of DG in Distribution Network for Power Loss Minimization Using NLP & PLS Technique. Energy Procedia, 2016, 90, 441-454.	1.8	38
14	Multistage Coordination Volt/VAR Control With CVR in Active Distribution Network in Presence of Inverter-Based DG Units and Soft Open Points. IEEE Transactions on Industry Applications, 2021, 57, 2035-2047.	3.3	38
15	Energy saving estimation in distribution network with smart grid-enabled CVR and solar PV inverter. IET Generation, Transmission and Distribution, 2018, 12, 1346-1358.	1.4	34
16	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. Electric Power Components and Systems, 2012, 40, 1119-1148.	1.0	31
17	Multistage Multiobjective Volt/VAR Control for Smart Grid-Enabled CVR With Solar PV Penetration. IEEE Systems Journal, 2021, 15, 2767-2778.	2.9	30
18	Coordinated Allocation of BESS and SOP in High PV Penetrated Distribution Network Incorporating DR and CVR Schemes. IEEE Systems Journal, 2022, 16, 420-430.	2.9	29

#	ARTICLE	IF	CITATIONS
19	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.	1.0	26
20	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.	1.0	26
21	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.	1.2	26
22	Fuzzy logic controlled shunt active power filter for reactive power compensation and harmonic elimination. , 2011, , .		25
23	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.	4.6	25
24	Harmonics estimation and modeling of residential and commercial loads. , 2009, , .		24
25	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.	3.3	24
26	ANN-Based Protection Scheme for Power Transformer. <i>Electric Power Components and Systems</i> , 2000, 28, 875-884.	0.1	23
27	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.	1.5	22
28	Efficient ANN method for post-contingency status evaluation. <i>International Journal of Electrical Power and Energy Systems</i> , 2010, 32, 54-62.	3.3	20
29	Optimal cost wide area measurement system incorporating communication infrastructure. <i>IET Generation, Transmission and Distribution</i> , 2017, 11, 2814-2821.	1.4	20
30	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.	1.0	18
31	A Fast Power Flow Solution of Radial Distribution Networks. <i>Electric Power Components and Systems</i> , 2002, 30, 1065-1074.	1.0	17
32	Design and implementation of induction generator controller for single phase self excited induction generator. , 2008, , .		16
33	Digital Signal Processor-based Controller Design and Implementation for Self-excited Induction Generator. <i>Electric Power Components and Systems</i> , 2008, 36, 1130-1140.	1.0	15
34	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.	2.9	15
35	New Load Controller for Single-phase Self-excited Induction Generator. <i>Electric Power Components and Systems</i> , 2009, 37, 658-671.	1.0	14
36	Coupled inductor bidirectional DC-DC converter for improved performance. , 2010, , .		14

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37	Protection and Conditions Monitoring of Power Transformer Using ANN. Electric Power Components and Systems, 2002, 30, 217-231.	1.0	13
38	Small hydro power plant identification using NNARX structure. Neural Computing and Applications, 2005, 14, 212-222.	3.2	13
39	Sensitivity based expert system for voltage control in power system. International Journal of Electrical Power and Energy Systems, 1993, 15, 131-136.	3.3	12
40	Self Organization and Learning Methods in Short Term Electric Load Forecasting: A Review. Electric Power Components and Systems, 2002, 30, 1075-1089.	1.0	12
41	Neural network based shunt active filter for harmonic and reactive power compensation under non-ideal mains voltage. , 2010, , .		12
42	Single-phase single-stage grid-interactive photovoltaic system with active filter functions. , 2010, , .		11
43	Centralized and decentralized optimal decision support for congestion management. International Journal of Electrical Power and Energy Systems, 2015, 64, 250-259.	3.3	11
44	Energy savings in distribution network with smart grid-enabled CVR and distributed generation. , 2016, , .		11
45	Reduction of energy demand via conservation voltage reduction considering network reconfiguration and soft open point. International Transactions on Electrical Energy Systems, 2020, 30, e12147.	1.2	10
46	Simulation of reduced order hydro turbine models to study its hydraulic transient characteristics. , 2005, , .		9
47	Selection of Optimal Capacitors for Maximum Power Output of a Single-phase Self-excited Induction Generator Using a Three-phase Machine. Electric Power Components and Systems, 2007, 35, 857-870.	1.0	9
48	Voltage mode control of coupled inductor bidirectional DC to DC converter. , 2010, , .		9
49	Optimal relay coordination for grid connected variable size DG. , 2016, , .		9
50	Social welfare maximization for congestion management in multiutility market using improved PSO incorporating transmission loss cost allocation. International Transactions on Electrical Energy Systems, 2018, 28, e2593.	1.2	9
51	Prosumer Energy Management for Optimal Utilization of Bid Fulfillment With EV Uncertainty Modeling. IEEE Transactions on Industry Applications, 2022, 58, 599-611.	3.3	9
52	Nonlinear predictive control for a NNARX hydro plant model. Neural Computing and Applications, 2007, 16, 101-108.	3.2	8
53	Transient performance of a three-phase self-excited induction generator supplying single phase load with Electronic Load Controller. , 2010, , .		8
54	Grid interconnection of distributed generation system with power quality improvement features. , 2011, , .		8

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55	Energy efficiency and peak load management via CVR and distributed energy storage in active distribution grid. International Transactions on Electrical Energy Systems, 2020, 30, e12224.	1.2	8
56	PIL based control algorithm for three-phase four-wire active filter for reactive and harmonic compensation under distorted supply. , 2010, , .		7
57	Neural network based active power filter for power quality improvement. , 2010, , .		7
58	Aggregated Effect of Active Distribution System on Available Transfer Capability Using Multi-Agent System Based ITD Framework. IEEE Systems Journal, 2021, 15, 1401-1412.	2.9	7
59	Non-linear load compensation in Fuel Cell grid interfaced system using active power filter. , 2011, , .		6
60	Pseudo PMU for quasi-static analysis of power system. , 2016, , .		6
61	Steady-State Security Analysis Using Artificial Neural Network. Electric Power Components and Systems, 2004, 32, 1063-1081.	1.0	5
62	Analysis of Transient Behavior of a Single-Phase Self-Regulated Self-Excited Induction Generator using a Three-Phase Machine. , 2006, , .		5
63	Design and analysis of photovoltaic-fuel cell hybrid distributed generation system. , 2013, , .		5
64	Capacitor allocation in radial distribution system for maximal energy savings. , 2016, , .		5
65	A new adaptive inverse-time protection scheme for modern distribution systems with distributed generation. , 2017, , .		5
66	Estimation of ATC using PS-NR. , 2017, , .		5
67	A Novel Multi-Objective PMU Placement Method for Power System State Estimation. , 2018, , .		5
68	Integrated Operation of Conservation Voltage Reduction and Network Reconfiguration in PV-Rich Distribution Network considering Soft Open Point Impact. , 2019, , .		5
69	Assessment of Ocean Wave Energy Converters for Indian Coastal Region. IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), 2020, 37, 476-488.	2.1	5
70	Real-time estimation of ATC using PMU data and ANN. IET Generation, Transmission and Distribution, 2020, 14, 3604-3616.	1.4	5
71	P-Q Controller of Grid-Connected Microgrid with Smart Inverter Based PV Distributed Energy Resources. , 2020, , .		5
72	ATC assessment and enhancement of integrated transmission and distribution system considering the impact of active distribution network. IET Renewable Power Generation, 2020, 14, 1571-1583.	1.7	5

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73	Methodology for alleviation of voltage excursions in large power systems. International Journal of Electrical Power and Energy Systems, 1996, 18, 167-173.	3.3	4
74	Intelligent technique for improved transient and dynamic response of bidirectional DC-DC converter. , 2010, , .		4
75	DSP based control algorithm for three-phase four-wire shunt active filter without load and filter current measurement. , 2010, , .		4
76	Design, modeling and implementation of Bi-directional buck and boost converter. , 2012, , .		4
77	Characteristic study, its identification and self-tuned approach to control hydro-power plants. International Journal of Sustainable Energy, 2013, 32, 599-630.	1.3	4
78	Performance investigation of the shunt active power filter using neural network. , 2014, , .		4
79	Modelling and stability analysis of coupled inductor bidirectional DC-DC converter. , 2010, , .		3
80	PLL less shunt active filter with direct current control for power quality conditioning. , 2010, , .		3
81	Optimal Rescheduling of Generators for Congestion Management and Benefit Maximization in a Decentralized Bilateral Multi-transactions Power Network. International Journal of Emerging Electric Power Systems, 2013, 14, 25-32.	0.6	3
82	Optimal capacitor placement in RDS using combined fuzzy & novel power loss sensitivity method. , 2016, , .		3
83	A smart volt-var optimization engine for energy distribution system. , 2016, , .		3
84	Impact of Combined Operation of CVR and Energy Storage System in Distribution Grid. , 2018, , .		3
85	Passive method for islanding detection using variational mode decomposition. IET Renewable Power Generation, 2020, 14, 3782-3791.	1.7	3
86	Multi-Stage Coordination Volt/VAR Control with CVR in Active Distribution Network in presence of Inverter-Based DG Units and Soft Open Points. , 2020, , .		3
87	Numerical Taxonomy Method for STLF. Electric Power Components and Systems, 2002, 30, 443-456.	1.0	2
88	Transient Analysis of a Single-Phase Self-Excited Induction Generator using a Three-Phase Machine feeding Dynamic Load. , 2006, , .		2
89	A Fast Acting $1/z$ Controller for Shunt Active Filter Operation for Harmonics and Reactive Power Compensation. , 2008, , .		2
90	Direct vector control of stand-alone self-excited induction generator. , 2010, , .		2

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91	Parasitic effect considerations in modeling of CI-BDC converter and its voltage controller. , 2010, , .		2
92	A novel voltage clamped CI-BDC converter and its control for battery storage applications. , 2010, , .		2
93	A decentralized congestion management using interior point method. , 2011, , .		2
94	Optimal Strategy for ATC Enhancement and Assessment in presence of FACTS devices and Renewable Generation. , 2018, , .		2
95	Blockchain based energy trading in ADN with its probable impact on aggregated load profile, available distribution capability and loadability margin. IET Renewable Power Generation, 2023, 17, 2853-2868.	1.7	2
96	Prototype scheme for differential protection of power transformer using ANN. , 2008, , .		1
97	Optimal power flow with benefit maximisation in coordinated bilateral power market. International Journal of Power and Energy Conversion, 2013, 4, 268.	0.2	1
98	Spoof surface plasmon polaritons based tunable band notch filter for terahertz and microwave. , 2016, , .		1
99	Effect of distributed generation on secondary level transmission system. , 2017, , .		1
100	Planning a comprehensive protection scheme considering distributed generation. , 2017, , .		1
101	A UNIFIED APPROACH TO OPTIMAL POWER FLOW SOLUTIONS USING GRG. Electric Power Components and Systems, 1991, 19, 103-114.	0.1	0
102	IMPROVEMENTS IN RECTANGULAR FORM OF FDLF FOR NETWORKS WITH SPECIAL FEATURES. Electric Power Components and Systems, 1991, 19, 577-598.	0.1	0
103	Gate-position and Turbine-generator Unit Speed Signal Approximation with Fuzzy Clustering for TS Fuzzy Model. , 2006, , .		0
104	Active and reactive power control of Proton Electrolyte Membrane Fuel Cell based Distributed Generation System. , 2011, , .		0
105	A study on ocean wave power and utilization for Indian coastal region. , 2017, , .		0
106	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.	0.3	0
107	V-f Regulation of a Smart Inverter fed Islanded Microgrid. , 2021, , .		0