

# Shanti Swarup

## 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.

67  
papers

601  
citations

13  
h-index

21  
g-index

90  
ext. papers

793  
ext. citations

3.8  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
67	A survey on applications of Alternating Direction Method of Multipliers in smart power grids. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 152, 111687	16.2	1
66	Game Theoretical Approach to Novel Reactive Power Ancillary Service Market Mechanism. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 1298-1308	7	8
65	Stochastic Optimal Bidding Strategy for Energy and Ancillary Services In Microgrid. <i>IEEE Transactions on Industry Applications</i> , <b>2021</b> , 1-1	4.3	2
64	Optimal Bidding Strategy with Ancillary Services in Hybrid Competitive Markets <b>2020</b> ,		1
63	Optimal Protection Coordination of Nonstandard Overcurrent Relays Using Hybrid QCQP Method. <i>Electric Power Components and Systems</i> , <b>2020</b> , 48, 1327-1338	1	2
62	Application of improved invasive weed optimization technique for optimally setting directional overcurrent relays in power systems. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 79, 1-13	7.5	26
61	A New Mixed Integer Linear Programming Formulation for Protection Relay Coordination Using Disjunctive Inequalities. <i>IEEE Power and Energy Technology Systems Journal</i> , <b>2019</b> , 6, 104-112	4.3	14
60	Coordinated reactive power and crow bar control for DFIG-based wind turbines for power oscillation damping. <i>Wind Engineering</i> , <b>2019</b> , 43, 95-113	1.2	3
59	Wide area oscillation damping controller for DFIG using WAMS with delay compensation. <i>IET Renewable Power Generation</i> , <b>2019</b> , 13, 128-137	2.9	14
58	A Novel Convexified Linear Program for Coordination of Directional Overcurrent Relays. <i>IEEE Transactions on Power Delivery</i> , <b>2019</b> , 34, 769-772	4.3	10
57	Adaptive Weight-Based Self Reconfiguration of Smart Distribution Network With Intelligent Agents. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2018</b> , 2, 464-472	4.1	8
56	A Review of Uncertainty Handling Techniques in Smart Grid. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , <b>2018</b> , 26, 345-378	0.8	7
55	A New Choice Based Home Energy Management System Using Electric Springs <b>2018</b> ,		2
54	Modelling and Simulation of Digital Substation Automation for Inter-Substation Line Protection <b>2018</b> ,		10
53	Analysis of Active and Transactive Demand Response Strategies for Smart Residential Buildings <b>2018</b> ,		2
52	A New Demand Side Management Scheme for Residential Consumers using Electric Springs <b>2017</b> ,		1
51	Optimal relay coordination for microgrids using hybrid modified particle swarm optimization □ Interval linear programming approach <b>2017</b> ,		2

50	Islanding detection scheme based on morphological wavelets <b>2017</b> ,		1
49	Mathematical morphology-based islanding detection for distributed generation. <i>IET Generation, Transmission and Distribution</i> , <b>2017</b> , 11, 3449-3457	2.5	9
48	Optimal tie line placement of distribution system incorporating performance based rates <b>2017</b> ,		1
47	Analysis of network topology processor algorithms in substation level networks <b>2017</b> ,		1
46	Modeling and simulation of virtual power plant in energy management system applications <b>2017</b> ,		6
45	Limitations of Angle-Based Faulty Line Identification Logic in Series-Compensated Parallel Transmission Lines. <i>IEEE Transactions on Power Delivery</i> , <b>2016</b> , 31, 1552-1561	4.3	4
44	Investigation of an optimized energy resource allocation algorithm for a community based virtual power plant <b>2016</b> ,		5
43	Evaluation of community virtual power plant under various pricing schemes <b>2016</b> ,		4
42	Optimal generation and reactive power scheduling of plug-in electric vehicles in V2G environment <b>2016</b> ,		2
41	Mathematical morphology-based islanding detection for distributed generation. <i>IET Generation, Transmission and Distribution</i> , <b>2016</b> , 10, 518-525	2.5	38
40	A multiobjective approach for optimal allocation of charging station to electric vehicles <b>2016</b> ,		2
39	Impact of DFIG based wind energy conversion system on fault studies and power swings <b>2016</b> ,		1
38	Reliability improvement considering reactive power aspects in a smart grid with Demand Side Management <b>2016</b> ,		1
37	Demand Response based Automatic Generation Control in smart-grid deregulated market <b>2016</b> ,		4
36	High Impedance Fault detection using DWT for transmission and distribution networks <b>2016</b> ,		3
35	Price based Demand Response strategy considering load priorities <b>2016</b> ,		5
34	Estimation of Electronic Suppression Circuit Resistance for Protective Relaying Applications. <i>Electric Power Components and Systems</i> , <b>2015</b> , 43, 282-297	1	1
33	Transient modeling and control of DFIG for grid power leveling during variable wind speed <b>2015</b> ,		1

32	Steady-state error estimation in distance relay for single phase to ground fault in series-compensated parallel transmission lines. <i>IET Generation, Transmission and Distribution</i> , <b>2014</b> , 8, 1318-1337	2.5	9
31	Analysis on AMI system requirements for effective convergence of distribution automation and AMI systems <b>2014</b> ,		1
30	Faulty line identification by distance relay in series-compensated parallel transmission lines <b>2014</b> ,		2
29	AMI/GIS based distribution system load flow for extended situational awareness <b>2014</b> ,		4
28	Unit commitment using dynamic programming-an exhaustive working of both classical and stochastic approach. <i>Frontiers in Energy</i> , <b>2013</b> , 7, 333-341	2.6	4
27	Investigating performance of numerical distance relay with higher sampling rate <b>2012</b> ,		1
26	Estimation and elimination of DC component in digital relaying <b>2012</b> ,		4
25	Design of pattern recognition system for static security assessment and classification. <i>Pattern Analysis and Applications</i> , <b>2012</b> , 15, 299-311	2.3	12
24	A Hybrid Interior Point Assisted Differential Evolution Algorithm for Economic Dispatch. <i>IEEE Transactions on Power Systems</i> , <b>2011</b> , 26, 541-549	7	63
23	Classification and Assessment of Power System Security Using Multiclass SVM. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2011</b> , 41, 753-758		48
22	Frequency restoration using Dynamic Demand Control under Smart Grid Environment <b>2011</b> ,		9
21	Dynamic Demand Response and control in Smart Grid Environment <b>2011</b> ,		5
20	Evolutionary Tristate PSO for Strategic Bidding of Pumped-Storage Hydroelectric Plant. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2010</b> , 40, 460-471		30
19	High Precision Frequency Estimation Using Internet-Based Phasor Measurement Unit. <i>IEEE Transactions on Power Systems</i> , <b>2010</b> , 25, 607-614	7	14
18	Optimization based graph theoretic approach for corrective control strategies to mitigate overloads. <i>European Transactions on Electrical Power</i> , <b>2010</b> , 20, 1009-1024		
17	Multiagent based particle swarm optimization approach to economic dispatch with security constraints <b>2009</b> ,		3
16	Graph theory based corrective control strategy during single line contingency <b>2009</b> ,		1
15	Coordinated preventive maintenance scheduling of GENCO and TRANSCO in restructured power systems. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2009</b> , 31, 626-638	5.1	24

14	Pumped storage bidding and its impacts in combined pool-bilateral market <b>2009</b> ,		2
13	Parallel contingency analysis in a high performance computing environment <b>2009</b> ,		10
12	Binary SVM Approach for Security Assessment and Classification in Power Systems <b>2009</b> ,		5
11	High-Speed Fault Classification in Power Lines: Theory and FPGA-Based Implementation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 1793-1800	8.9	36
10	Market operations in future Indian restructured power system scenario. <i>International Journal of Energy Technology and Policy</i> , <b>2009</b> , 7, 78	1	5
9	Artificial neural network using pattern recognition for security assessment and analysis. <i>Neurocomputing</i> , <b>2008</b> , 71, 983-998	5.4	24
8	Unbalanced distribution system short circuit analysis in an Object-Oriented Approach <b>2008</b> ,		1
7	Distributed Fast Decoupled Load Flow Analysis <b>2008</b> ,		6
6	Volt-Var Optimization Using Differential Evolution. <i>Electric Power Components and Systems</i> , <b>2008</b> , 36, 387-408	1	7
5	Fault Detection and Classification Logic for Transmission Lines Using Multi-resolution Wavelet Analysis. <i>Electric Power Components and Systems</i> , <b>2008</b> , 36, 321-344	1	15
4	Optimal bidding strategy for multi-unit pumped storage plant in pool-based electricity market using evolutionary tristate PSO <b>2008</b> ,		7
3	Computationally Efficient Wavelet-Transform-Based Digital Directional Protection for Busbars. <i>IEEE Transactions on Power Delivery</i> , <b>2007</b> , 22, 1342-1350	4.3	28
2	Object Modeling of Balanced and Unbalanced Distribution Systems for Power Flow Analysis. <i>Electric Power Components and Systems</i> , <b>2006</b> , 34, 191-215	1	4
1	Coordinated maintenance scheduling of Gencos and Transcos in restructured power systems <b>2006</b> ,		6